DT fluid cooler

engineering data
and specifications

MARLEY®

Finned Heat Exchange Coil

Finned coil models provide enhanced thermal performance and boost dry capacity, allowing dry operation at ambient temperatures up to 20° higher than with the bare tube coil.

Access Platforms

Fluid cooler-supported mechanical access platforms are available on the fluid cooler face where the mechanical access door is located. Platform surfaces are surrounded by a guardrail, kneerail and toeboard designed according to OSHA guidelines. Partial factory assembed platforms are available to simplify field installation. Available platform accessories include ladder(s), ladder extension(s), safety cage(s) and safety gate(s).

Remote Sump Application

For applications with remote sump, the fluid cooler recirculating water pump and piping are removed and an outlet connection is added in the collection basin.

Belt Drive

The standard mechanical drive system consists of a Marley Geareducer coupled to a NEMA premium efficiency, TEFC inverter duty motor. A drive system consisting of belts and pulleys may alternatively be selected based on user preference.

Vibration Switch

A mechanical vibration switch may be factory mounted for wiring to the shutdown circuit of the fan motor starter or VFD. The switch is designed to interrupt control power voltage to a safety circuit in the event of excessive vibration causing the starter or VFD equipment to de-energize the motor.

Quiet Fans

Standard low sound fans are designed to maximize air movement efficiency at low sound levels. Quiet fans provide lower sound levels with minimal cost impact by increasing blade count and/or reducing fan speed.

Ultra Quiet Fans

For applications requiring a significant reduction in fluid cooler sound levels, Ultra Quiet fans may be employed to reduce above fan sound levels up to 16 dBA. Fans are propeller-type, incorporating wide-chord acoustic geometry, individually adjustable, corrosion and fire resistant marine grade aluminum blades resiliently mounted to an aluminum hub.

Lube Line and Dipstick

An external oil level dipstick can be selected on fluid coolers.

Davit Crane

To simplify the removal of mechanical components, fluid cooler-mounted portable davit cranes are available in 500 lb and 1000 lb capacities.

Stainless Steel Construction

When an enhanced level of corrosion protection is desired, fluid coolers may be configured with varying levels of stainless steel construction. Stainless steel collection basins, welded and factory water tested to reduce the potential for leaks, are a commonly selected upgrade. Units with stainless steel collection basin and casing are also available.

Electronic Water Level Control

An electronic water level control system consisting of a NEMA 4X control panel, water level probes and probe stilling chamber may be selected to monitor the water level in the collection basin to determine level events used for makeup, high/low alarm(s), and/or pump shutdown.

Water Level Standpipe

An external water level standpipe is available to allow visual determination of the basin water level from the exterior of the unit while in operation.

Pump Heat Trace

When an electric basin heater package is selected, the recirculating pump(s) may be fitted with electric heat trace cable and insulated to protect the water retained in the pump from freezing during periods of shutdown or standby operation.

Basin Sweeper Piping

As an option to augment an external filtration system, the collection basin may be equipped with a factory installed corrosion resistant sweeper piping system designed to force dirt and debris towards a dedicated drain in the depressed section of the collection basin.

Splash Attenuation

Fluid coolers may be selected with optional polypropylene splash attenuation media, factory installed in the collection basin to reduce falling water noise at the air inlet.

STRONG GALVANIZED STEEL CONSTRUCTION

The high quality mechanical components and refrigeration coils are safely housed in heavy-duty galvanized steel to ensure corrosion protection, low maintenance and long life. Submerged areas are bolted or welded to minimize potential for leaks; tap screws are not used in submerged areas.

STAINLESS STEEL OPTIONS

When environmental and design conditions dictate, heavy gauge stainless steel water collection basins and other structural components may be specified.

DUAL U-BOLT FAN HUB

The hub design reduces fan de-pitching and vibration potential.

CLOG-RESISTANT WATER DISTRIBUTION SYSTEM

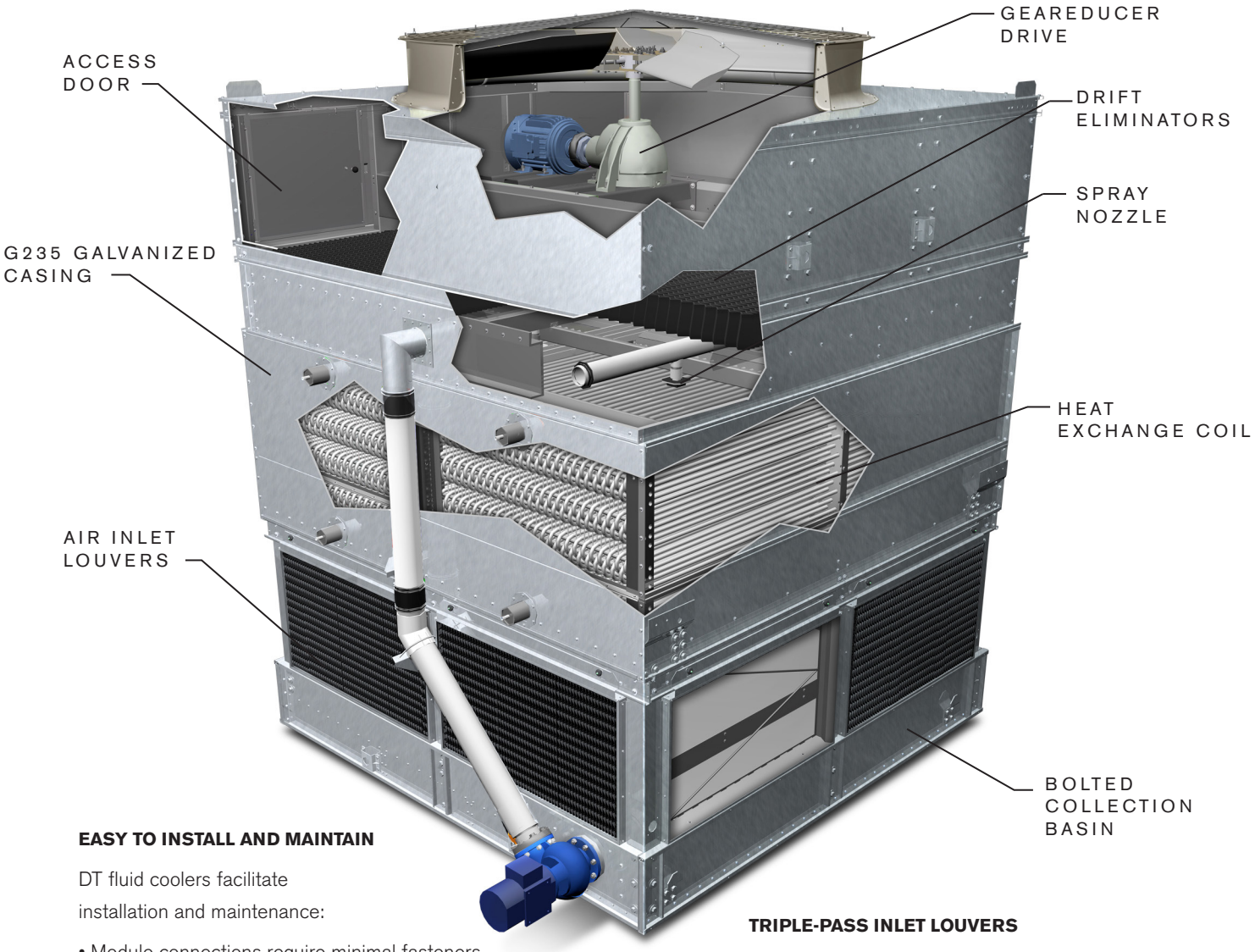
Self-draining spray headers and large orifice spray nozzles help prevent debris build-up and clogging. Self-draining spray headers limit potential ice buildup when not operational; spray nozzles mount to the bottom of the spray pipes.

SOUND REDUCTION

Quiet operation is increasingly an important part of product specifications. Sound reduction options enable selections with up to 15+ dbA lower sound levels.

MARLEY GEAREDUCER® DRIVE

Genuine Marley mechanical system offers lowest maintenance costs and most reliable performance with 5-year warranty. Belt drive optional.



EASY TO INSTALL AND MAINTAIN

DT fluid coolers facilitate installation and maintenance:

- Module connections require minimal fasteners
- Pre-assembled platform options have welded guardrails

TRIPLE-PASS INLET LOUVERS

Removable louvers control splash-out and sunlight exposure to limit algae growth.

8.5' x 9' Single Cell

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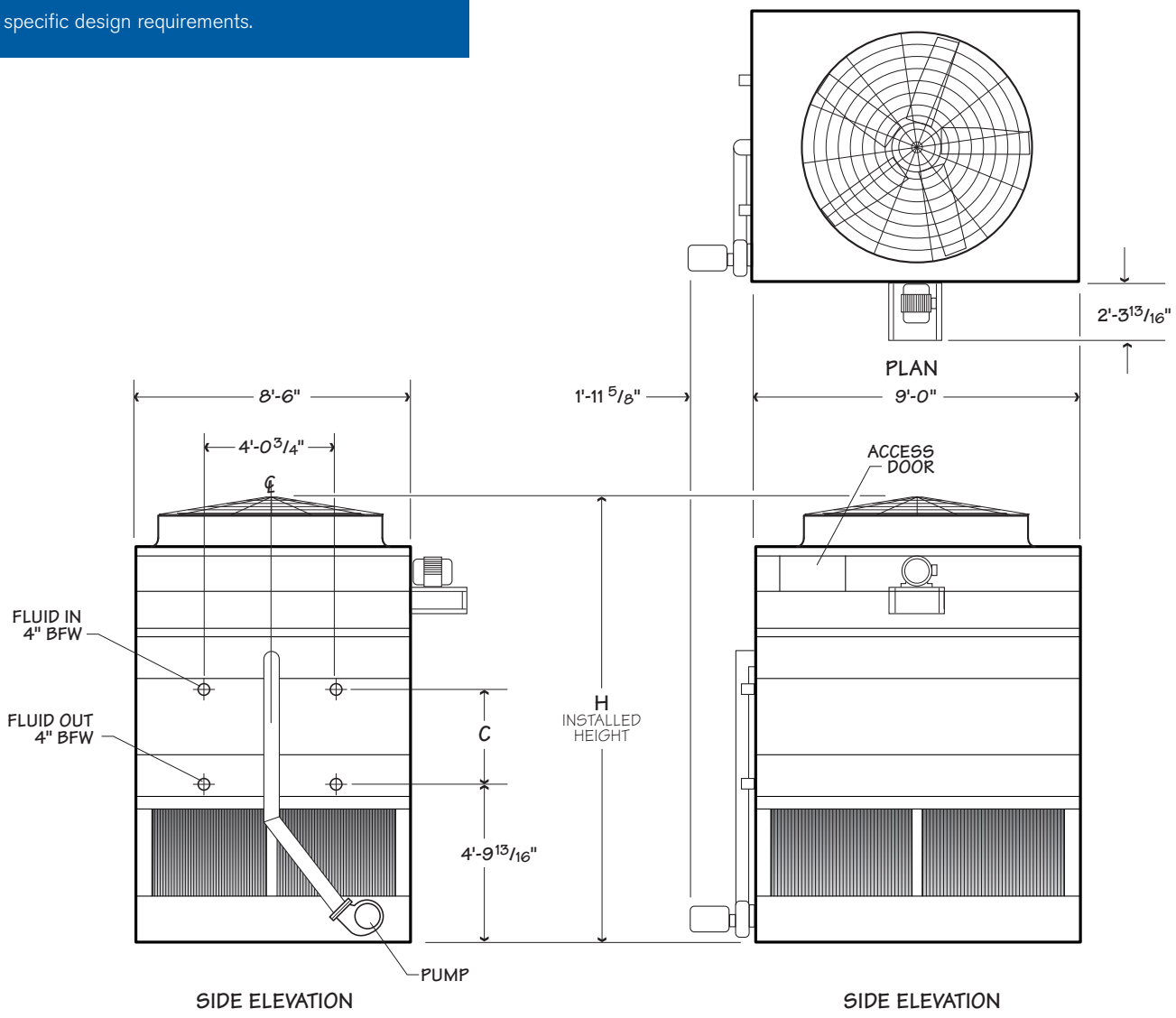

8.5' x 9' Single Cell

Model note1	Internal Coil Volume gal	Fan Motor hp	Airflow Rate cfm	Shipping Weight lb		Design Operating Weight lb	Dimensions note 2		Recirculating Flow Rate gpm	Pump Motor hp
				Weight/Cell	Heaviest Section		H	C		
DTW-8509-MAB1, -MAM1	180	7.5	37,281	8,700	7,100	12,600	12'-7 3/8"	2'-8 1/8"	355	2
DTW-8509-NAB1, -NAM1	180	10	40,199	8,700	7,100	12,600				
DTW-8509-PAB1, -PAM1	180	15	44,724	8,800	7,200	12,700				
DTW-8509-QAB1, -QAM1	180	20	46,656	8,800	7,200	12,800				
DTW-8509-MAC1, -MAN1	222	7.5	36,941	9,600	8,000	13,900	13'-4 3/8"	3'-5 1/8"		
DTW-8509-NAC1, -NAN1	222	10	39,938	9,600	8,000	13,900				
DTW-8509-PAC1, -PAN1	222	15	44,556	9,700	8,100	14,000				
DTW-8509-QAC1, -QAN1	222	20	46,500	9,700	8,100	14,000				
DTW-8509-MAD1, -MAP1	263	7.5	36,580	10,400	7,000	15,100	14'-1 3/8"	4'-2 1/8"		
DTW-8509-NAD1, -NAP1	263	10	39,668	10,500	7,000	15,100				
DTW-8509-PAD1, -PAP1	263	15	44,375	10,600	7,100	15,200				
DTW-8509-QAD1, -QAP1	263	20	46,334	10,600	7,200	15,300				
DTW-8509-MAJ1, -MAR1	291	7.5	35,629	11,100	7,600	16,000				
DTW-8509-NAJ1, -NAR1	291	10	38,977	11,100	7,700	16,000				
DTW-8509-PAJ1, -PAR1	291	15	44,159	11,200	7,800	16,100				
DTW-8509-QAJ1, -QAR1	291	20	46,312	11,300	7,800	16,200				
DTW-8509-MAE1, -MAQ1	305	7.5	36,201	11,400	7,900	16,400	14'-10 3/8"	4'-11 1/8"		
DTW-8509-NAE1, -NAQ1	305	10	39,379	11,400	8,000	16,400				
DTW-8509-PAE1, -PAQ1	305	15	44,189	11,500	8,100	16,600				
DTW-8509-QAE1, -QAQ1	305	20	46,167	11,600	8,100	16,600				
DTW-8509-MAK1, -MAS1	337	7.5	34,979	12,000	8,600	17,300				
DTW-8509-NAK1, -NAS1	337	10	38,457	12,000	8,600	17,300				
DTW-8509-PAK1, -PAS1	337	15	43,819	12,200	8,700	17,400				
DTW-8509-QAK1, -QAS1	337	20	46,016	12,200	8,700	17,500				

NOTE

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8.5' x 12' Single Cell

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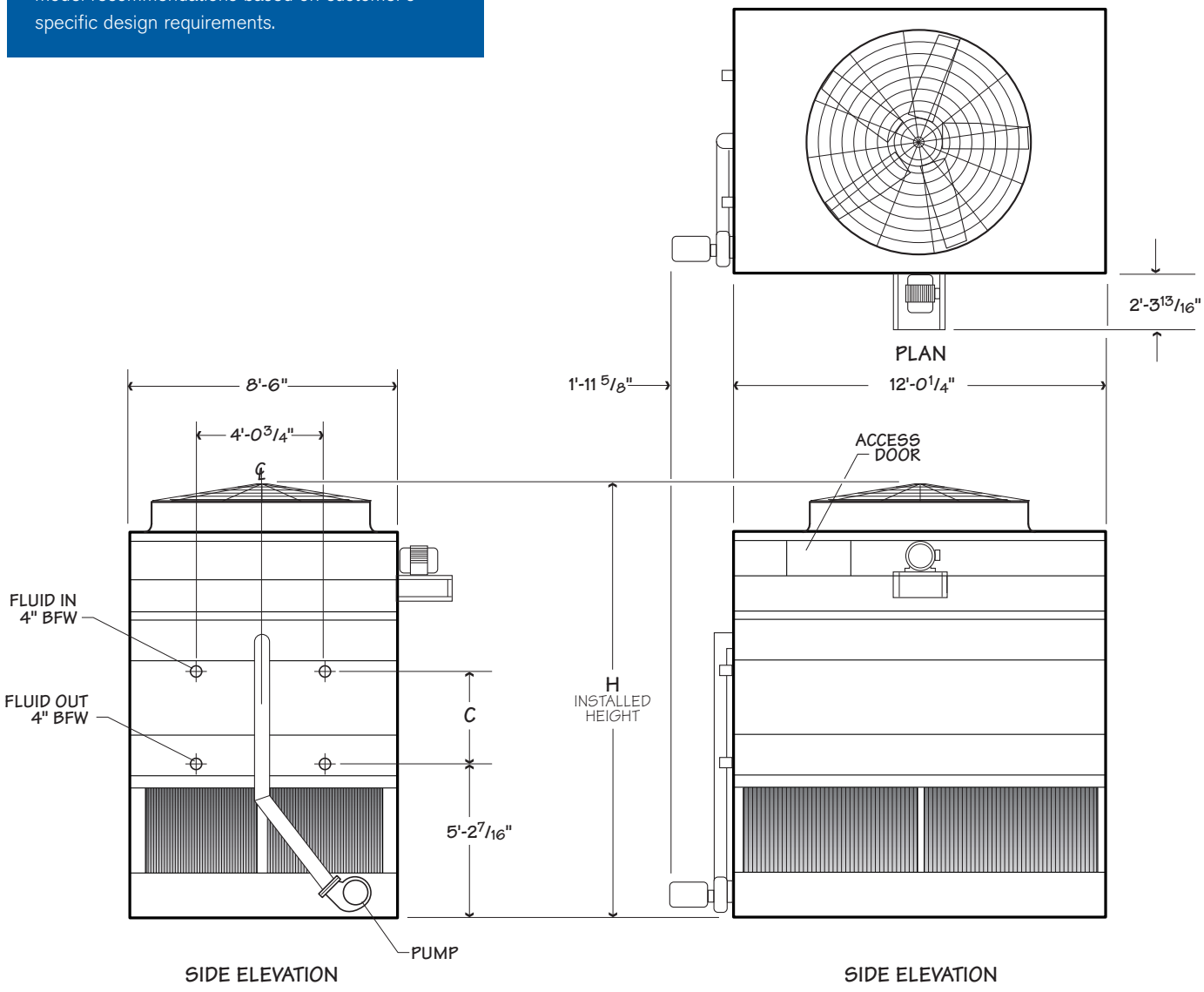

8.5' x 12' Single Cell

Model note1	Internal Coil Volume gal	Fan Motor hp	Airflow Rate cfm	Shipping Weight lb		Design Operating Weight lb	Dimensions note 2		Recirculating Flow Rate gpm	Pump Motor hp
				Weight/Cell	Heaviest Section		H	C		
DTW-8512-NAB1, -NAM1	239	10	48,342	10,200	8,300	15,500	13'-0"	2'-8 1/8"	530	3
DTW-8512-PAB1, -PAM1	239	15	55,322	10,300	8,400	15,600				
DTW-8512-QAB1, -QAM1	239	20	58,675	10,400	8,500	15,600				
DTW-8512-RAB1, -RAM1	239	25	60,761	10,500	8,600	15,800				
DTW-8512-NAC1, -NAN1	296	10	47,886	11,400	9,400	17,100	13'-9"	3'-5 1/8"		
DTW-8512-PAC1, -PAN1	296	15	55,068	11,500	9,600	17,200				
DTW-8512-QAC1, -QAN1	296	20	58,461	11,500	9,600	17,200				
DTW-8512-RAC1, -RAN1	296	25	60,567	11,700	9,800	17,400				
DTW-8512-NAD1, -NAP1	352	10	47,402	12,500	8,600	18,700	14'-6"	4'-2 1/8"		
DTW-8512-PAD1, -PAP1	352	15	54,804	12,600	8,700	18,800				
DTW-8512-QAD1, -QAP1	352	20	58,237	12,600	8,800	18,900				
DTW-8512-RAD1, -RAP1	352	25	60,364	12,800	8,900	19,000				
DTW-8512-SAD1, -SAP1	352	30	62,800	12,800	9,000	19,100				
DTW-8512-NAJ1, -NAR1	390	10	46,039	13,200	9,300	19,700				
DTW-8512-PAJ1, -PAR1	390	15	54,070	13,300	9,400	19,800				
DTW-8512-QAJ1, -QAR1	390	20	57,754	13,300	9,400	19,900				
DTW-8512-RAJ1, -RAR1	390	25	60,065	13,500	9,600	20,000				
DTW-8512-SAJ1, -SAR1	390	30	62,736	13,500	9,700	20,100				
DTW-8512-NAE1, -NAQ1	409	10	46,889	13,700	9,800	20,400	15'-3"	4'-11 1/8"		
DTW-8512-PAE1, -PAQ1	409	15	54,528	13,800	9,900	20,500				
DTW-8512-QAE1, -QAQ1	409	20	58,004	13,900	10,000	20,500				
DTW-8512-RAE1, -RAQ1	409	25	60,154	14,000	10,100	20,700				
DTW-8512-SAE1, -SAQ1	409	30	62,627	14,100	10,200	20,700				
DTW-8512-NAK1, -NAS1	452	10	45,172	14,500	10,600	21,500				
DTW-8512-PAK1, -PAS1	452	15	53,537	14,600	10,700	21,700				
DTW-8512-QAK1, -QAS1	452	20	57,290	14,700	10,800	21,700				
DTW-8512-RAK1, -RAS1	452	25	59,645	14,800	10,900	21,900				
DTW-8512-SAK1, -SAS1	452	30	62,394	14,900	11,000	21,900				

NOTE

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10' x 12' Single Cell

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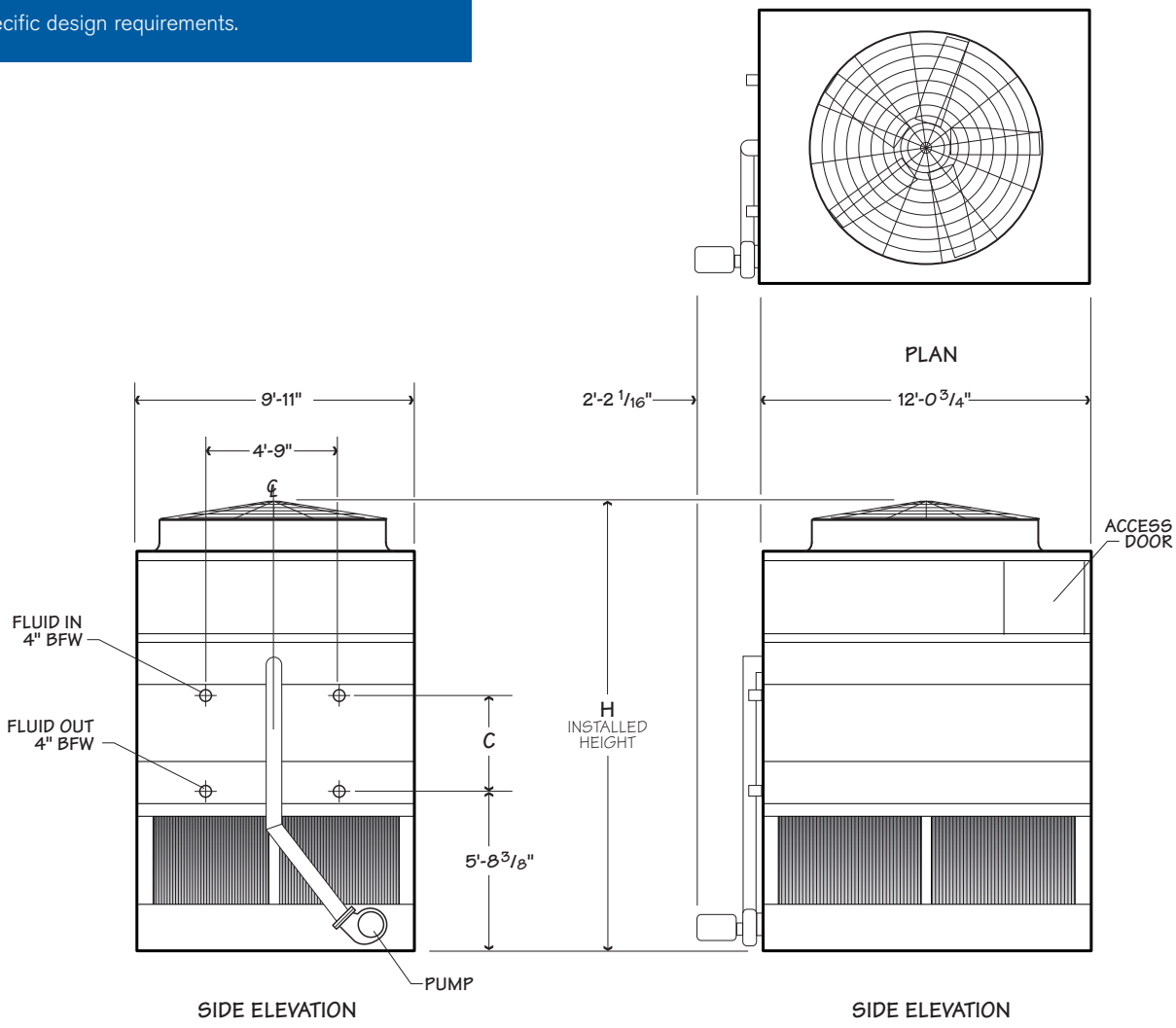

10' x 12' Single Cell

Model note1	Internal Coil Volume gal	Fan Motor hp	Airflow Rate cfm	Shipping Weight lb		Design Operating Weight lb	Dimensions note 2		Recirculating Flow Rate gpm	Pump Motor hp
				Weight/Cell	Heaviest Section		H	C		
DTW-1012-NAB1, -NAM1	285	10	53,674	12,700	10,400	19,100	15'-2 7/16"	2'-8 1/8"	600	5
DTW-1012-PAB1, -PAM1	285	15	59,083	12,800	10,500	19,200				
DTW-1012-QAB1, -QAM1	285	20	63,841	12,900	10,500	19,200				
DTW-1012-RAB1, -RAM1	285	25	67,118	13,000	10,700	19,400				
DTW-1012-NAC1, -NAN1	353	10	53,006	14,100	11,700	21,000	15'-11 7/16"	3'-5 1/8"		
DTW-1012-PAC1, -PAN1	353	15	58,566	14,200	11,900	21,100				
DTW-1012-QAC1, -QAN1	353	20	63,458	14,200	11,900	21,100				
DTW-1012-RAC1, -RAN1	353	25	66,809	14,400	12,000	21,300				
DTW-1012-NAD1, -NAP1	420	10	52,301	15,400	10,400	22,900	16'-8 7/16"	4'-2 1/8"		
DTW-1012-PAD1, -PAP1	420	15	58,011	15,500	10,400	23,000				
DTW-1012-QAD1, -QAP1	420	20	63,053	15,600	10,400	23,000				
DTW-1012-RAD1, -RAP1	420	25	66,483	15,700	10,400	23,200				
DTW-1012-SAD1, -SAP1	420	30	71,213	15,800	10,400	23,200				
DTW-1012-NAJ1, -NAR1	467	10	50,643	16,300	11,300	24,100				
DTW-1012-PAJ1, -PAR1	467	15	56,635	16,400	11,300	24,300				
DTW-1012-QAJ1, -QAR1	467	20	62,112	16,400	11,300	24,300				
DTW-1012-RAJ1, -RAR1	467	25	65,870	16,600	11,300	24,400				
DTW-1012-SAJ1, -SAR1	467	30	71,088	16,600	11,300	24,500				
DTW-1012-PAE1, -PAQ1	488	15	57,428	17,000	11,900	25,000	17'-5 7/16"	4'-11 1/8"		
DTW-1012-QAE1, -QAQ1	488	20	62,625	17,000	11,900	25,000				
DTW-1012-RAE1, -RAQ1	488	25	66,140	17,200	11,900	25,200				
DTW-1012-SAE1, -SAQ1	488	30	70,970	17,200	11,900	25,200				
DTW-1012-PAK1, -PAS1	542	15	55,592	18,000	12,900	26,500				
DTW-1012-QAK1, -QAS1	542	20	61,275	18,000	12,900	26,500				
DTW-1012-RAK1, -RAS1	542	25	65,163	18,200	12,900	26,700				
DTW-1012-SAK1, -SAS1	542	30	70,570	18,200	12,900	26,700				

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12' x 12' Single Cell

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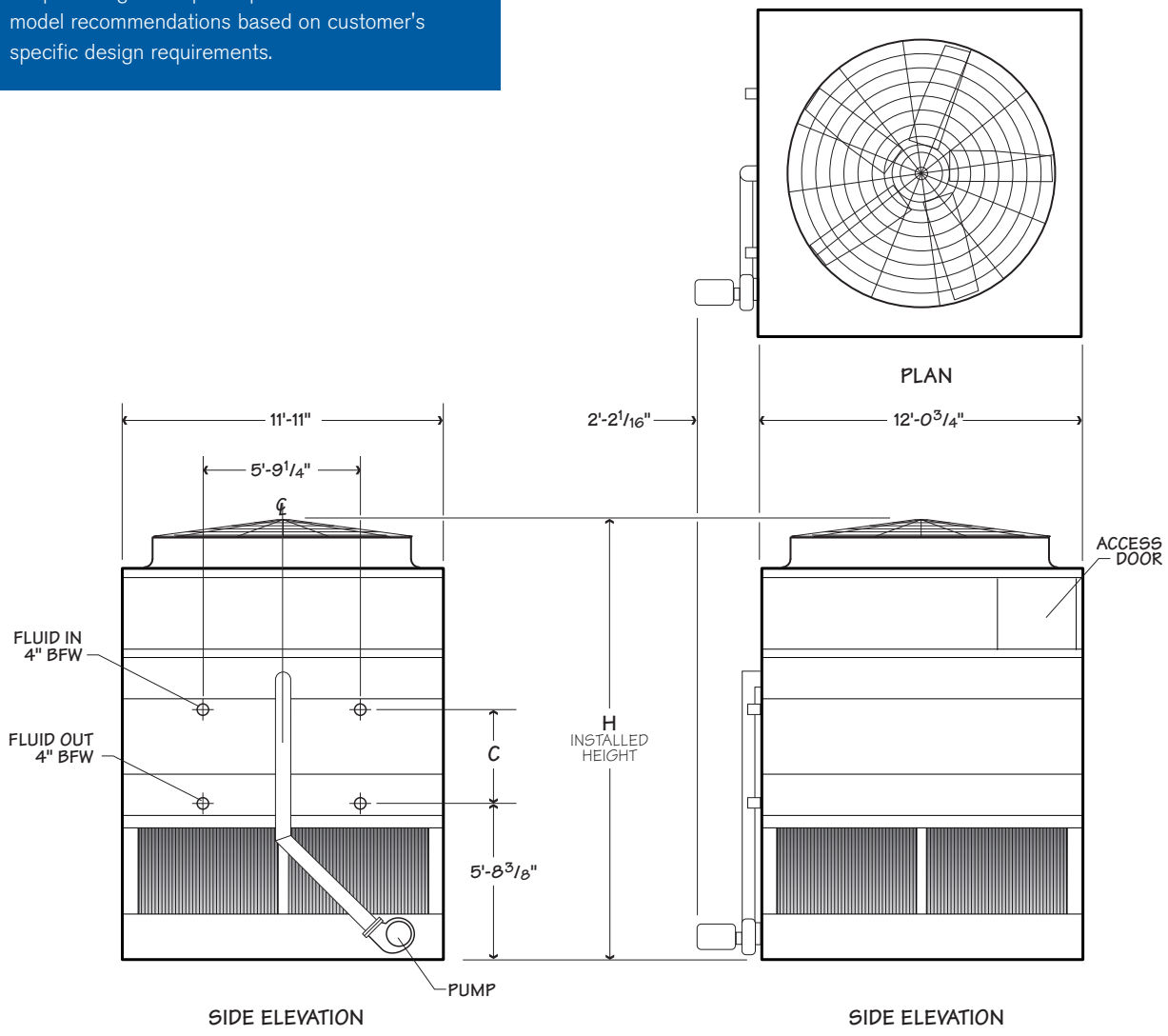

12' x 12' Single Cell

Model note1	Internal Coil Volume gal	Fan Motor hp	Airflow Rate cfm	Shipping Weight lb		Design Operating Weight lb	Dimensions note 2		Recirculating Flow Rate gpm	Pump Motor hp
				Weight/Cell	Heaviest Section		H	C		
DTW-1212-NAB1, -NAM1	345	10	63,642	14,500	11,900	22,000	15'-2 7/16"	2'-8 1/8"	700	5
DTW-1212-PAB1, -PAM1	345	15	70,875	14,600	12,000	22,100				
DTW-1212-QAB1, -QAM1	345	20	76,735	14,600	12,000	22,100				
DTW-1212-RAB1, -RAM1	345	25	80,964	14,800	12,200	22,300				
DTW-1212-SAB1, -SAM1	345	30	86,041	14,800	12,200	22,300				
DTW-1212-NAC1, -NAN1	426	10	62,809	16,100	13,500	24,300	15'-11 7/16"	3'-5 1/8"		
DTW-1212-PAC1, -PAN1	426	15	70,205	16,200	13,600	24,400				
DTW-1212-QAC1, -QAN1	426	20	76,223	16,200	13,600	24,400				
DTW-1212-RAC1, -RAN1	426	25	80,532	16,400	13,800	24,600				
DTW-1212-SAC1, -SAN1	426	30	85,709	16,400	13,800	24,600				
DTW-1212-NAD1, -NAP1	508	10	61,930	17,700	12,200	26,500	16'-8 7/16"	4'-2 1/8"		
DTW-1212-PAD1, -PAP1	508	15	69,498	17,800	12,200	26,700				
DTW-1212-QAD1, -QAP1	508	20	75,679	17,800	12,200	26,700				
DTW-1212-RAD1, -RAP1	508	25	80,087	18,000	12,200	26,900				
DTW-1212-SAD1, -SAP1	508	30	85,370	18,000	12,200	26,900				
DTW-1212-PAJ1, -PAR1	564	15	67,863	18,800	13,200	28,200				
DTW-1212-QAJ1, -QAR1	564	20	74,530	18,900	13,200	28,200				
DTW-1212-RAJ1, -RAR1	564	25	79,331	19,000	13,200	28,400				
DTW-1212-SAJ1, -SAR1	564	30	85,138	19,100	13,200	28,400				
DTW-1212-TAJ1, -TAR1	564	40	90,507	19,200	13,200	28,500				
DTW-1212-PAE1, -PAQ1	589	15	68,753	19,500	13,900	29,000	17'-5 7/16"	4'-11 1/8"		
DTW-1212-QAE1, -QAQ1	589	20	75,119	19,500	13,900	29,100				
DTW-1212-RAE1, -RAQ1	589	25	79,628	19,700	13,900	29,200				
DTW-1212-SAE1, -SAQ1	589	30	85,026	19,700	13,900	29,300				
DTW-1212-PAK1, -PAS1	655	15	66,626	20,700	15,100	30,800				
DTW-1212-QAK1, -QAS1	655	20	73,528	20,700	15,100	30,800				
DTW-1212-RAK1, -RAS1	655	25	78,481	20,900	15,100	31,000				
DTW-1212-SAK1, -SAS1	655	30	84,499	20,900	15,100	31,000				
DTW-1212-TAK1, -TAS1	655	40	89,974	21,100	15,100	31,100				

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10' x 18' Single Cell

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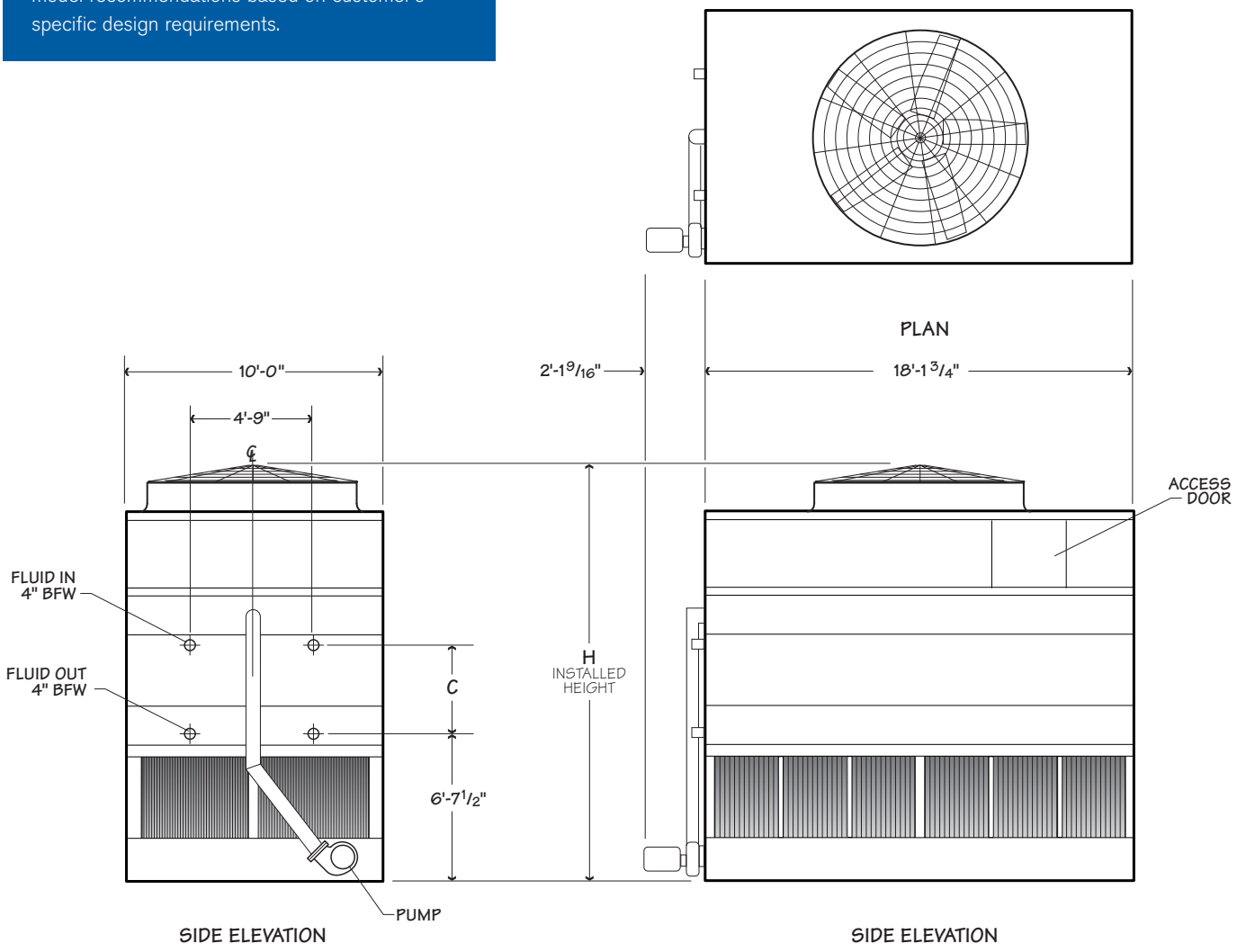

10' x 18' Single Cell

Model note1	Internal Coil Volume gal	Fan Motor hp	Airflow Rate cfm	Shipping Weight lb		Design Operating Weight lb	Dimensions note 2		Recirculating Flow Rate gpm	Pump Motor hp
				Weight/Cell	Heaviest Section		H	C		
DTW-1018-NAB1, -NAM1	422	10	70,962	17,700	14,100	27,200	16'-1 9/16"	2'-8 1/8"	830	7.5
DTW-1018-PAB1, -PAM1	422	15	80,646	17,800	14,200	27,400				
DTW-1018-QAB1, -QAM1	422	20	88,176	17,900	14,300	27,400				
DTW-1018-RAB1, -RAM1	422	25	93,807	18,000	14,400	27,600				
DTW-1018-SAB1, -SAM1	422	30	99,842	18,100	14,500	27,600				
DTW-1018-NAC1, -NAN1	524	10	69,894	19,700	16,100	30,100	16'-10 9/16"	3'-5 1/8"		
DTW-1018-PAC1, -PAN1	524	15	79,727	19,800	16,200	30,200				
DTW-1018-QAC1, -QAN1	524	20	87,439	19,800	16,200	30,200				
DTW-1018-RAC1, -RAN1	524	25	93,180	20,000	16,400	30,400				
DTW-1018-SAC1, -SAN1	524	30	99,360	20,000	16,400	30,400				
DTW-1018-NAD1, -NAP1	626	10	68,797	21,600	14,800	32,900	17'-7 9/16"	4'-2 1/8"		
DTW-1018-PAD1, -PAP1	626	15	78,764	21,800	14,800	33,000				
DTW-1018-QAD1, -QAP1	626	20	86,668	21,800	14,800	33,000				
DTW-1018-RAD1, -RAP1	626	25	92,523	22,000	14,800	33,200				
DTW-1018-SAD1, -SAP1	626	30	98,861	22,000	14,800	33,200				
DTW-1018-TAD1, -TAP1	626	40	105,986	22,100	14,800	33,300				
DTW-1018-PAJ1, -PAR1	696	15	76,762	23,000	16,100	34,800				
DTW-1018-QAJ1, -QAR1	696	20	85,015	23,100	16,100	34,900				
DTW-1018-RAJ1, -RAR1	696	25	91,203	23,200	16,100	35,000				
DTW-1018-SAJ1, -SAR1	696	30	98,055	23,300	16,100	35,100				
DTW-1018-TAJ1, -TAR1	696	40	105,717	23,400	16,100	35,200				
DTW-1018-PAE1, -PAQ1	727	15	77,767	23,800	16,900	35,900	18'-4 9/16"	4'-11 1/8"		
DTW-1018-QAE1, -QAQ1	727	20	85,861	23,900	16,900	35,900				
DTW-1018-RAE1, -RAQ1	727	25	91,848	24,000	16,900	36,100				
DTW-1018-SAE1, -SAQ1	727	30	98,350	24,100	16,900	36,100				
DTW-1018-TAE1, -TAQ1	727	40	105,562	24,200	16,900	36,300				
DTW-1018-PAK1, -PAS1	810	15	75,277	25,300	18,300	38,100				
DTW-1018-QAK1, -QAS1	810	20	83,718	25,400	18,300	38,100				
DTW-1018-RAK1, -RAS1	810	25	90,056	25,500	18,300	38,300				
DTW-1018-SAK1, -SAS1	810	30	97,156	25,600	18,300	38,300				
DTW-1018-TAK1, -TAS1	810	40	104,961	25,700	18,300	38,400				

NOTE

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12' x 18' Single Cell

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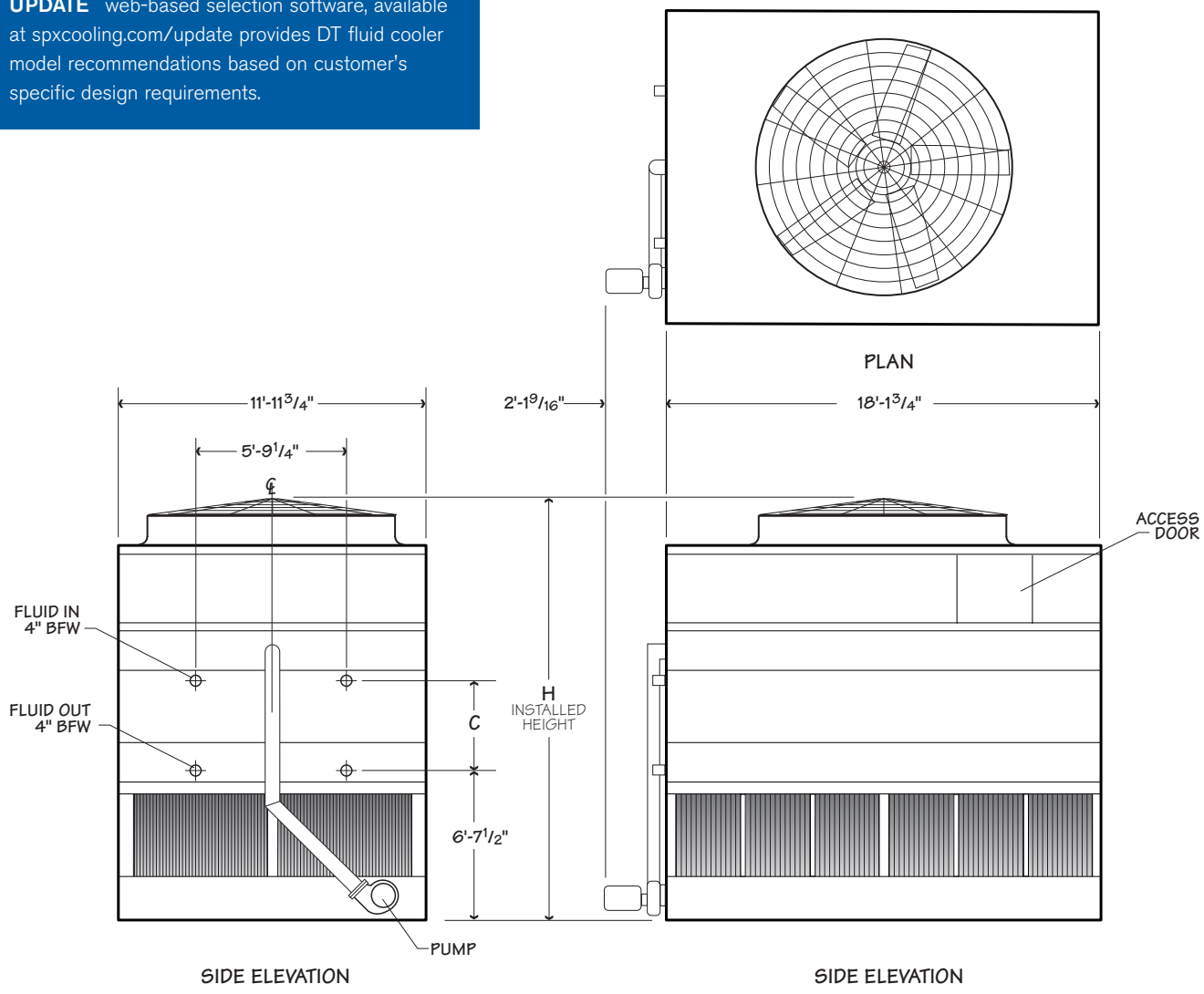

12' x 18' Single Cell

Model note1	Internal Coil Volume gal	Fan Motor hp	Airflow Rate cfm	Shipping Weight lb		Design Operating Weight lb	Dimensions note 2		Recirculating Flow Rate gpm	Pump Motor hp
				Weight/Cell	Heaviest Section		H	C		
DTW-1218-PAB1, -PAM1	510	15	95,104	20,800	16,600	32,000	16'-6⅛"	2'-8⅛"	940	7.5
DTW-1218-QAB1, -QAM1	510	20	104,279	20,800	16,700	32,100				
DTW-1218-RAB1, -RAM1	510	25	110,314	21,000	16,800	32,200				
DTW-1218-SAB1, -SAM1	510	30	116,871	21,000	16,900	32,300				
DTW-1218-PAC1, -PAN1	633	15	93,940	23,100	18,900	35,400	17'-3⅛"	3'-5⅛"		
DTW-1218-QAC1, -QAN1	633	20	103,346	23,100	19,000	35,400				
DTW-1218-RAC1, -RAN1	633	25	109,496	23,300	19,100	35,600				
DTW-1218-SAC1, -SAN1	633	30	116,201	23,300	19,200	35,600				
DTW-1218-PAD1, -PAP1	756	15	92,737	25,400	17,400	38,700	18'-0⅛"	4'-2⅛"		
DTW-1218-QAD1, -QAP1	756	20	102,378	25,400	17,400	38,800				
DTW-1218-RAD1, -RAP1	756	25	108,647	25,600	17,400	38,900				
DTW-1218-SAD1, -SAP1	756	30	115,501	25,600	17,400	39,000				
DTW-1218-TAD1, -TAP1	756	40	126,058	25,800	17,400	39,100				
DTW-1218-UAD1, -UAP1	756	50	132,526	25,800	17,400	39,100				
DTW-1218-QAJ1, -QAR1	841	20	100,405	27,000	18,900	41,000				
DTW-1218-RAJ1, -RAR1	841	25	106,977	27,100	18,900	41,200				
DTW-1218-SAJ1, -SAR1	841	30	114,306	27,200	18,900	41,200				
DTW-1218-TAJ1, -TAR1	841	40	125,658	27,300	18,900	41,300				
DTW-1218-UAJ1, -UAR1	841	50	132,650	27,300	18,900	41,300				
DTW-1218-VAJ1, -VAR1	841	60	137,882	27,700	18,900	41,700				
DTW-1218-QAE1, -QAQ1	879	20	101,367	27,900	19,900	42,300	18'-9⅛"	4'-11⅛"		
DTW-1218-RAE1, -RAQ1	879	25	107,768	28,100	19,900	42,400				
DTW-1218-SAE1, -SAQ1	879	30	114,783	28,100	19,900	42,500				
DTW-1218-TAE1, -TAQ1	879	40	125,529	28,200	19,900	42,600				
DTW-1218-UAE1, -UAQ1	879	50	132,065	28,300	19,900	42,600				
DTW-1218-QAK1, -QAS1	978	20	98,868	29,700	21,600	44,900				
DTW-1218-RAK1, -RAS1	978	25	105,575	29,900	21,600	45,000				
DTW-1218-SAK1, -SAS1	978	30	113,116	29,900	21,600	45,100				
DTW-1218-TAK1, -TAS1	978	40	124,772	30,000	21,600	45,200				
DTW-1218-UAK1, -UAS1	978	50	131,899	30,000	21,600	45,200				
DTW-1218-VAK1, -VAS1	978	60	137,212	30,400	21,600	45,600				

NOTE

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8.5' x 18' Two Cell

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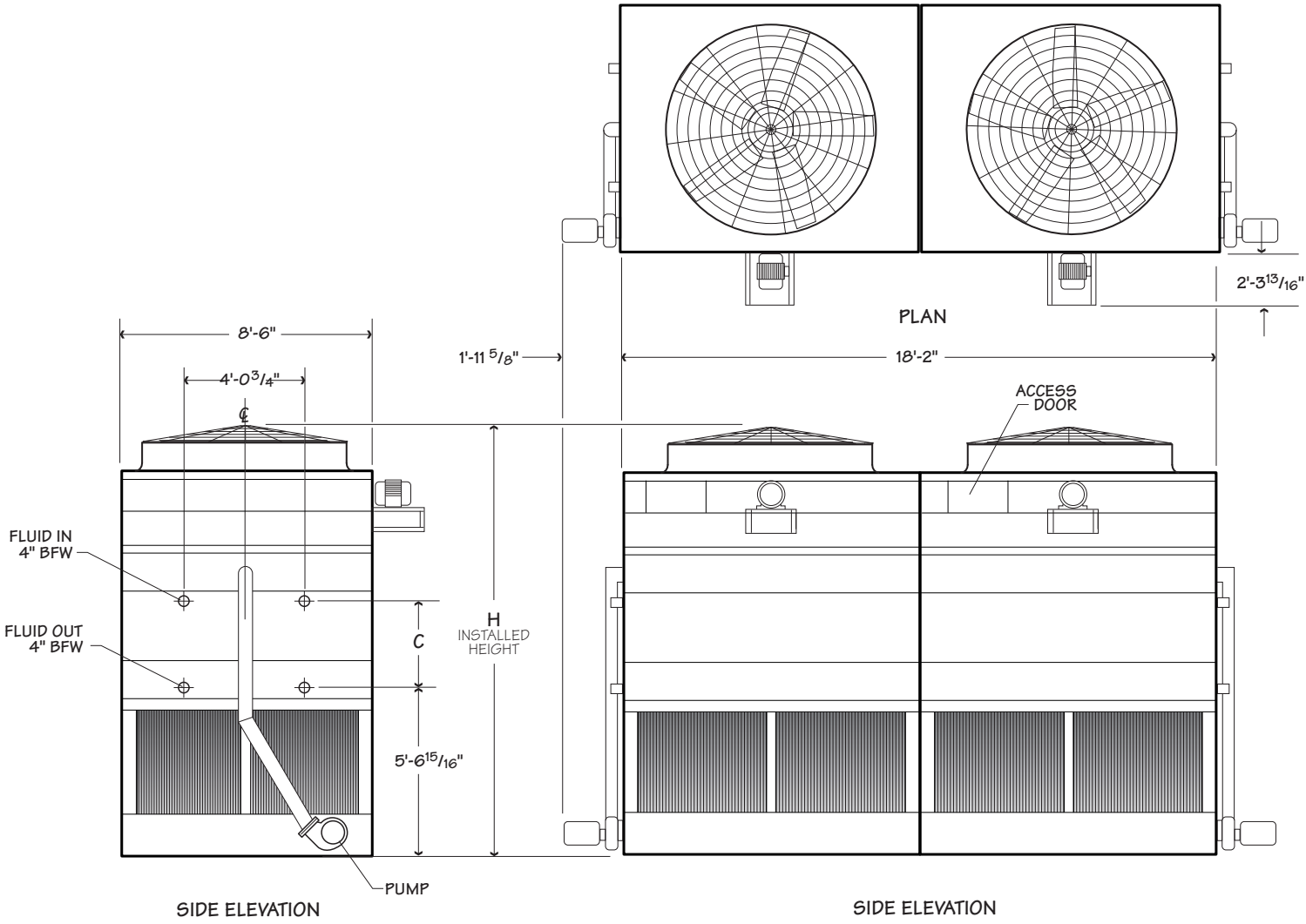

8.5' x 18' Two Cell

Model note1	Internal Coil Volume gal	Fan Motor hp	Airflow Rate cfm	Shipping Weight lb		Design Operating Weight lb	Dimensions note 2		Recirculating Flow Rate gpm	Pump Motor hp
				Weight/Cell	Heaviest Section		H	C		
DTW-8509-MAB2, -MAM2	360	2 x 7.5	74,562	8,700	7,100	25,200	13'-4 1/2"	2'-8 1/8"	710	2 x 2
DTW-8509-NAB2, -NAM2	360	2 x 10	80,399	8,700	7,100	25,200				
DTW-8509-PAB2, -PAM2	360	2 x 15	89,448	8,800	7,200	25,400				
DTW-8509-QAB2, -QAM2	360	2 x 20	93,313	8,800	7,200	25,600				
DTW-8509-MAC2, -MAN2	444	2 x 7.5	73,883	9,600	8,000	27,800	14'-1 1/2"	3'-5 1/8"		
DTW-8509-NAC2, -NAN2	444	2 x 10	79,876	9,600	8,000	27,800				
DTW-8509-PAC2, -PAN2	444	2 x 15	89,112	9,700	8,100	28,000				
DTW-8509-QAC2, -QAN2	444	2 x 20	93,001	9,700	8,100	28,000				
DTW-8509-MAD2, -MAP2	526	2 x 7.5	73,160	10,400	7,000	30,200	14'-10 1/2"	4'-2 1/8"		
DTW-8509-NAD2, -NAP2	526	2 x 10	79,336	10,500	7,000	30,200				
DTW-8509-PAD2, -PAP2	526	2 x 15	88,750	10,600	7,100	30,400				
DTW-8509-QAD2, -QAP2	526	2 x 20	92,669	10,600	7,200	30,600				
DTW-8509-MAJ2, -MAR2	582	2 x 7.5	71,258	11,100	7,600	32,000				
DTW-8509-NAJ2, -NAR2	582	2 x 10	77,955	11,100	7,700	32,000				
DTW-8509-PAJ2, -PAR2	582	2 x 15	88,317	11,200	7,800	32,200				
DTW-8509-QAJ2, -QAR2	582	2 x 20	92,625	11,300	7,800	32,400				
DTW-8509-MAE2, -MAQ2	610	2 x 7.5	72,401	11,400	7,900	32,800	15'-7 1/2"	4'-11 1/8"		
DTW-8509-NAE2, -NAQ2	610	2 x 10	78,758	11,400	8,000	32,800				
DTW-8509-PAE2, -PAQ2	610	2 x 15	88,379	11,500	8,100	33,200				
DTW-8509-QAE2, -QAQ2	610	2 x 20	92,334	11,600	8,100	33,200				
DTW-8509-MAK2, -MAS2	674	2 x 7.5	69,958	12,000	8,600	34,600				
DTW-8509-NAK2, -NAS2	674	2 x 10	76,914	12,000	8,600	34,600				
DTW-8509-PAK2, -PAS2	674	2 x 15	87,638	12,200	8,700	34,800				
DTW-8509-QAK2, -QAS2	674	2 x 20	92,033	12,200	8,700	35,000				

NOTE

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8.5' x 24' Two Cell

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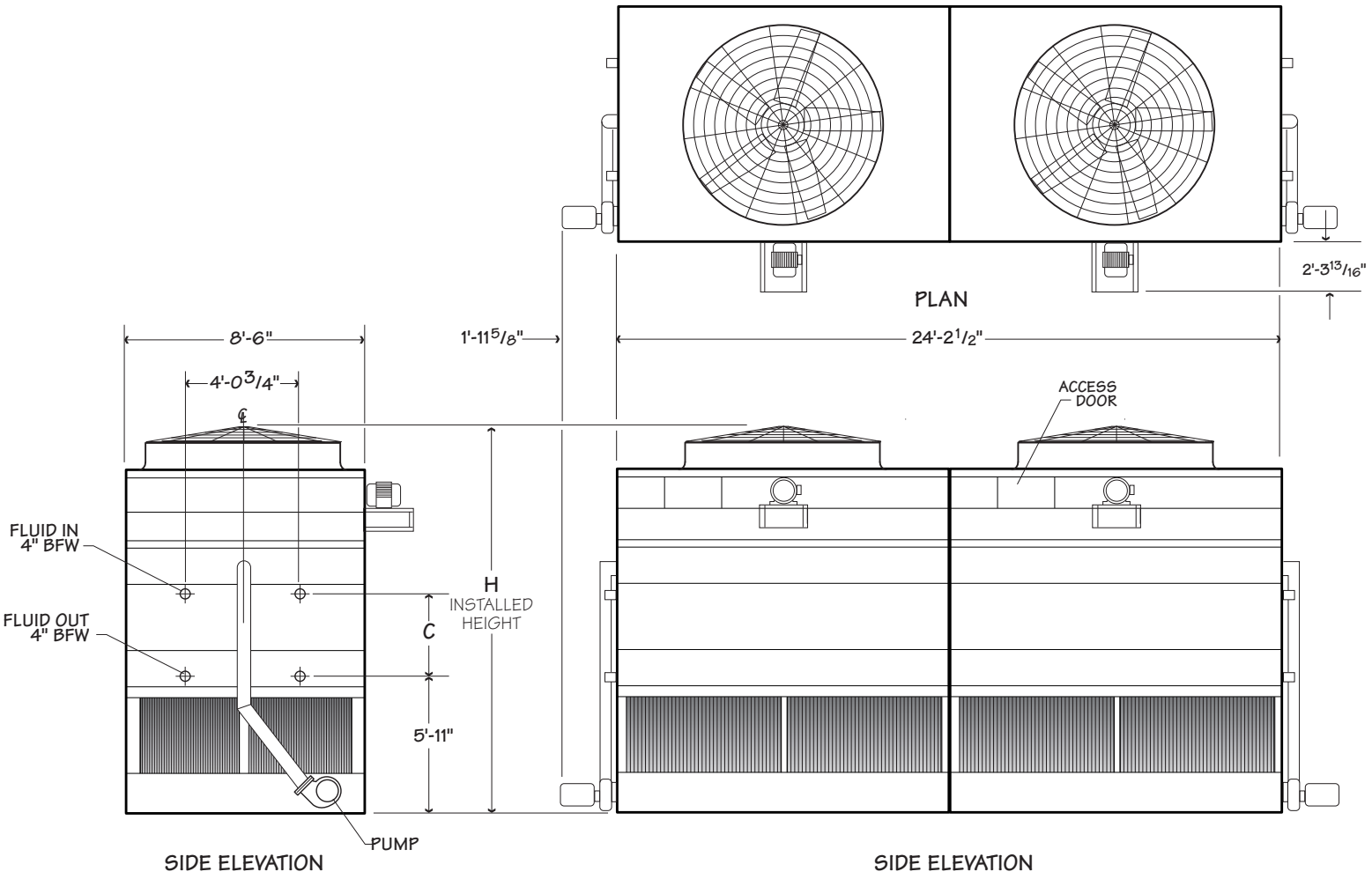

8.5' x 24' Two Cell

Model note1	Internal Coil Volume gal	Fan Motor hp	Airflow Rate cfm	Shipping Weight lb		Design Operating Weight lb	Dimensions note 2		Recirculating Flow Rate gpm	Pump Motor hp
				Weight/Cell	Heaviest Section		H	C		
DTW-8512-NAB2, -NAM2	239	2 x 10	96,684	10,200	8,300	31,000	13'-8 1/2"	2'-8 1/8"	1,060	2 x 3
DTW-8512-PAB2, -PAM2	239	2 x 15	110,644	10,300	8,400	31,200				
DTW-8512-QAB2, -QAM2	239	2 x 20	117,351	10,400	8,500	31,200				
DTW-8512-RAB2, -RAM2	239	2 x 25	121,523	10,500	8,600	31,600				
DTW-8512-NAC2, -NAN2	296	2 x 10	95,773	11,400	9,400	34,200	14'-5 1/2"	3'-5 1/8"		
DTW-8512-PAC2, -PAN2	296	2 x 15	110,136	11,500	9,600	34,400				
DTW-8512-QAC2, -QAN2	296	2 x 20	116,922	11,500	9,600	34,400				
DTW-8512-RAC2, -RAN2	296	2 x 25	121,134	11,700	9,800	34,800				
DTW-8512-NAD2, -NAP2	352	2 x 10	94,805	12,500	8,600	37,400	15'-2 1/2"	4'-2 1/8"		
DTW-8512-PAD2, -PAP2	352	2 x 15	109,608	12,600	8,700	37,600				
DTW-8512-QAD2, -QAP2	352	2 x 20	116,474	12,600	8,800	37,800				
DTW-8512-RAD2, -RAP2	352	2 x 25	120,727	12,800	8,900	38,000				
DTW-8512-SAD2, -SAP2	352	2 x 30	125,601	12,800	9,000	38,200				
DTW-8512-NAJ2, -NAR2	390	2 x 10	92,078	13,200	9,300	39,400				
DTW-8512-PAJ2, -PAR2	390	2 x 15	108,139	13,300	9,400	39,600				
DTW-8512-QAJ2, -QAR2	390	2 x 20	115,508	13,300	9,400	39,800				
DTW-8512-RAJ2, -RAR2	390	2 x 25	120,130	13,500	9,600	40,000				
DTW-8512-SAJ2, -SAR2	390	2 x 30	125,472	13,500	9,700	40,200				
DTW-8512-NAE2, -NAQ2	409	2 x 10	93,778	13,700	9,800	40,800	15'-11 1/2"	4'-11 1/8"		
DTW-8512-PAE2, -PAQ2	409	2 x 15	109,055	13,800	9,900	41,000				
DTW-8512-QAE2, -QAQ2	409	2 x 20	116,009	13,900	10,000	41,000				
DTW-8512-RAE2, -RAQ2	409	2 x 25	120,307	14,000	10,100	41,400				
DTW-8512-SAE2, -SAQ2	409	2 x 30	125,254	14,100	10,200	41,400				
DTW-8512-NAK2, -NAS2	452	2 x 10	90,345	14,500	10,600	43,000				
DTW-8512-PAK2, -PAS2	452	2 x 15	107,074	14,600	10,700	43,400				
DTW-8512-QAK2, -QAS2	452	2 x 20	114,581	14,700	10,800	43,400				
DTW-8512-RAK2, -RAS2	452	2 x 25	119,291	14,800	10,900	43,800				
DTW-8512-SAK2, -SAS2	452	2 x 30	124,788	14,900	11,000	43,800				

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10' x 24' Two Cell

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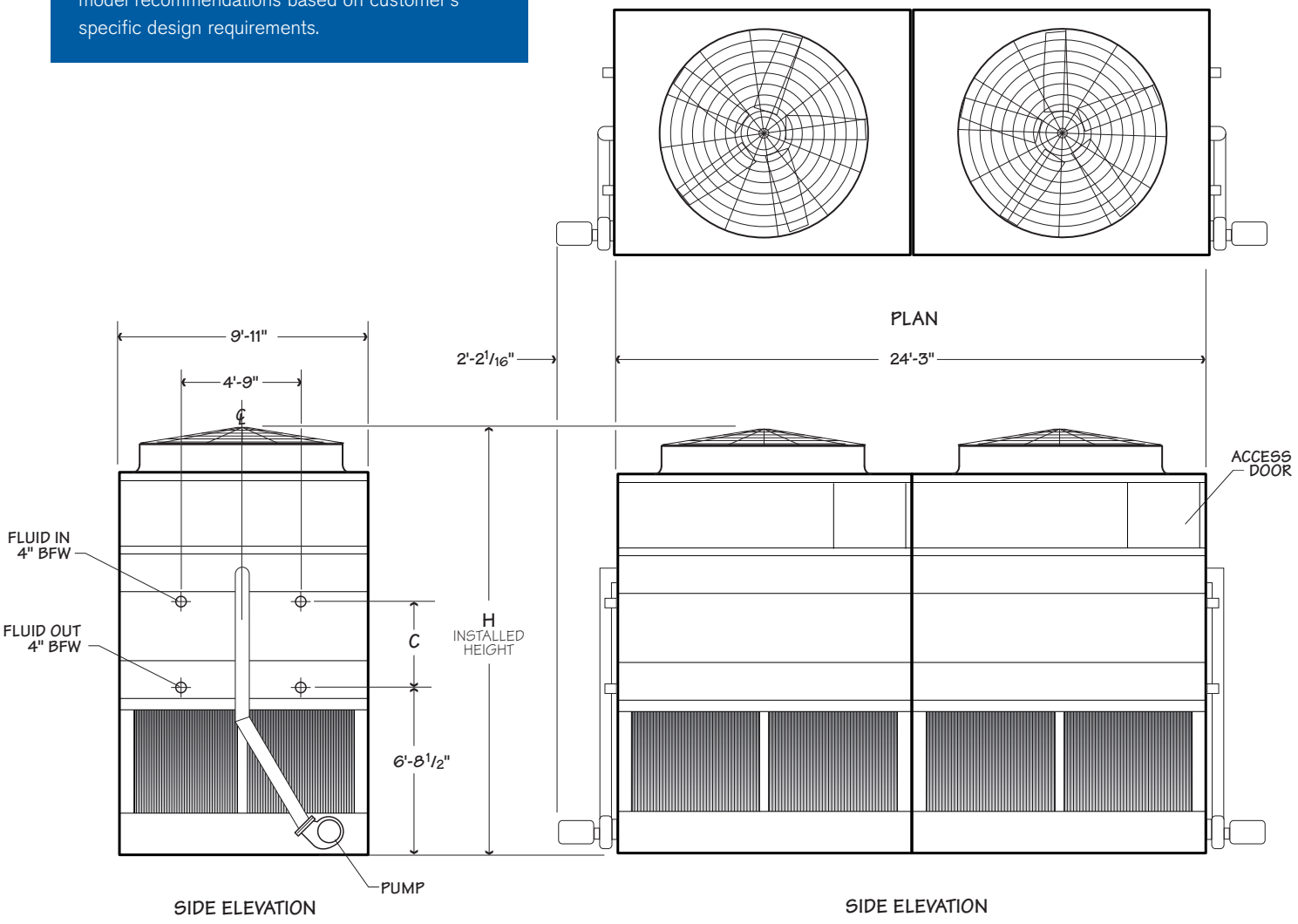

10' x 24' Two Cell

Model note1	Internal Coil Volume gal	Fan Motor hp	Airflow Rate cfm	Shipping Weight lb		Design Operating Weight lb	Dimensions note 2		Recirculating Flow Rate gpm	Pump Motor hp
				Weight/Cell	Heaviest Section		H	C		
DTW-1012-NAB2, -NAM2	570	2 x 10	107,348	12,700	10,400	38,200	16'-2 9/16"	2'-8 1/8"	1,200	2 x 5
DTW-1012-PAB2, -PAM2	570	2 x 15	118,165	12,800	10,500	38,400				
DTW-1012-QAB2, -QAM2	570	2 x 20	127,682	12,900	10,500	38,400				
DTW-1012-RAB2, -RAM2	570	2 x 25	134,236	13,000	10,700	38,800				
DTW-1012-NAC2, -NAN2	706	2 x 10	106,011	14,100	11,700	42,000	16'-11 9/16"	3'-5 1/8"		
DTW-1012-PAC2, -PAN2	706	2 x 15	117,132	14,200	11,900	42,200				
DTW-1012-QAC2, -QAN2	706	2 x 20	126,916	14,200	11,900	42,200				
DTW-1012-RAC2, -RAN2	706	2 x 25	133,619	14,400	12,000	42,600				
DTW-1012-NAD2, -NAP2	840	2 x 10	104,601	15,400	10,400	45,800	17'-8 9/16"	4'-2 1/8"		
DTW-1012-PAD2, -PAP2	840	2 x 15	116,021	15,500	10,400	46,000				
DTW-1012-QAD2, -QAP2	840	2 x 20	126,105	15,600	10,400	46,000				
DTW-1012-RAD2, -RAP2	840	2 x 25	132,965	15,700	10,400	46,400				
DTW-1012-SAD2, -SAP2	840	2 x 30	142,425	15,800	10,400	46,400				
DTW-1012-NAJ2, -NAR2	934	2 x 10	101,286	16,300	11,300	48,200				
DTW-1012-PAJ2, -PAR2	934	2 x 15	113,269	16,400	11,300	48,600				
DTW-1012-QAJ2, -QAR2	934	2 x 20	124,223	16,400	11,300	48,600				
DTW-1012-RAJ2, -RAR2	934	2 x 25	131,740	16,600	11,300	48,800				
DTW-1012-SAJ2, -SAR2	934	2 x 30	142,175	16,600	11,300	49,000				
DTW-1012-PAE2, -PAQ2	976	2 x 15	114,856	17,000	11,900	50,000	18'-5 9/16"	4'-11 1/8"		
DTW-1012-QAE2, -QAQ2	976	2 x 20	125,250	17,000	11,900	50,000				
DTW-1012-RAE2, -RAQ2	976	2 x 25	132,280	17,200	11,900	50,400				
DTW-1012-SAE2, -SAQ2	976	2 x 30	141,941	17,200	11,900	50,400				
DTW-1012-PAK2, -PAS2	1,084	2 x 15	111,184	18,000	12,900	53,000				
DTW-1012-QAK2, -QAS2	1,084	2 x 20	122,550	18,000	12,900	53,000				
DTW-1012-RAK2, -RAS2	1,084	2 x 25	130,326	18,200	12,900	53,400				
DTW-1012-SAK2, -SAS2	1,084	2 x 30	141,140	18,200	12,900	53,400				

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12' x 24' Two Cell

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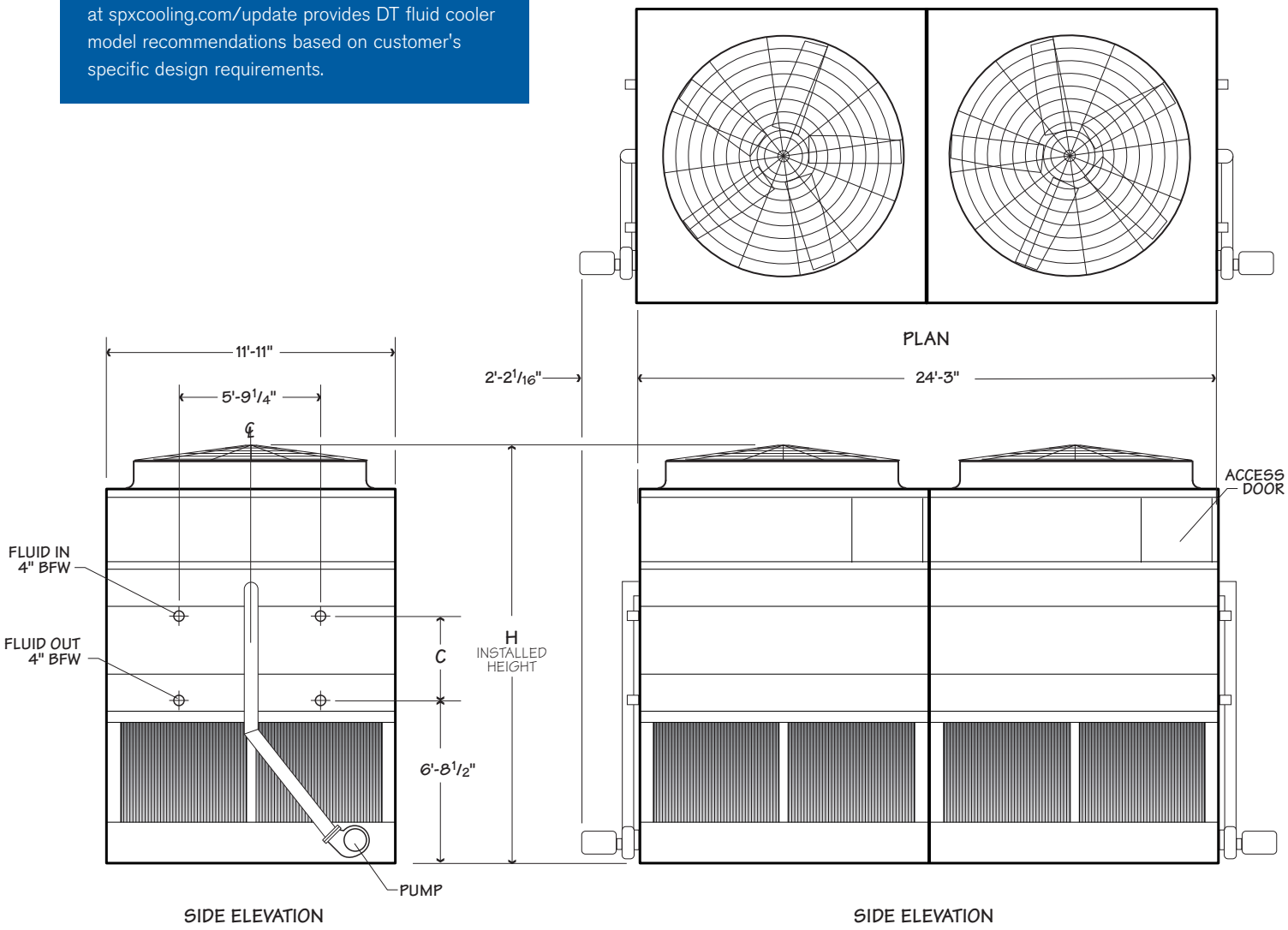

12' x 24' Two Cell

Model note1	Internal Coil Volume gal	Fan Motor hp	Airflow Rate cfm	Shipping Weight lb		Design Operating Weight lb	Dimensions note 2		Recirculating Flow Rate gpm	Pump Motor hp
				Weight/Cell	Heaviest Section		H	C		
DTW-1212-NAB2, -NAM2	690	2 x 10	127,283	14,500	11,900	44,000	16-2 9/16"	2'-8 1/8"	1,400	2 x 5
DTW-1212-PAB2, -PAM2	690	2 x 15	141,750	14,600	12,000	44,200				
DTW-1212-QAB2, -QAM2	690	2 x 20	153,469	14,600	12,000	44,200				
DTW-1212-RAB2, -RAM2	690	2 x 25	161,927	14,800	12,200	44,600				
DTW-1212-SAB2, -SAM2	690	2 x 30	172,081	14,800	12,200	44,600				
DTW-1212-NAC2, -NAN2	852	2 x 10	125,617	16,100	13,500	48,600	16'-11 9/16"	3'-5 1/8"		
DTW-1212-PAC2, -PAN2	852	2 x 15	140,410	16,200	13,600	48,800				
DTW-1212-QAC2, -QAN2	852	2 x 20	152,447	16,200	13,600	48,800				
DTW-1212-RAC2, -RAN2	852	2 x 25	161,065	16,400	13,800	49,200				
DTW-1212-SAC2, -SAN2	852	2 x 30	171,418	16,400	13,800	49,200				
DTW-1212-NAD2, -NAP2	1,016	2 x 10	123,861	17,700	12,200	53,000	17'-8 9/16"	4'-2 1/8"		
DTW-1212-PAD2, -PAP2	1,016	2 x 15	138,997	17,800	12,200	53,400				
DTW-1212-QAD2, -QAP2	1,016	2 x 20	151,358	17,800	12,200	53,400				
DTW-1212-RAD2, -RAP2	1,016	2 x 25	160,174	18,000	12,200	53,800				
DTW-1212-SAD2, -SAP2	1,016	2 x 30	170,740	18,000	12,200	53,800				
DTW-1212-PAJ2, -PAR2	1,128	2 x 15	135,726	18,800	13,200	56,400				
DTW-1212-QAJ2, -QAR2	1,128	2 x 20	149,060	18,900	13,200	56,400				
DTW-1212-RAJ2, -RAR2	1,128	2 x 25	158,663	19,000	13,200	56,800				
DTW-1212-SAJ2, -SAR2	1,128	2 x 30	170,275	19,100	13,200	56,800				
DTW-1212-TAJ2, -TAR2	1,128	2 x 40	181,015	19,200	13,200	57,000				
DTW-1212-PAE2, -PAQ2	1,178	2 x 15	137,506	19,500	13,900	58,000	18'-8 9/16"	4'-11 1/8"		
DTW-1212-QAE2, -QAQ2	1,178	2 x 20	150,238	19,500	13,900	58,200				
DTW-1212-RAE2, -RAQ2	1,178	2 x 25	159,256	19,700	13,900	58,400				
DTW-1212-SAE2, -SAQ2	1,178	2 x 30	170,052	19,700	13,900	58,600				
DTW-1212-PAK2, -PAS2	1,310	2 x 15	133,253	20,700	15,100	61,600				
DTW-1212-QAK2, -QAS2	1,310	2 x 20	147,057	20,700	15,100	61,600				
DTW-1212-RAK2, -RAS2	1,310	2 x 25	156,962	20,900	15,100	62,000				
DTW-1212-SAK2, -SAS2	1,310	2 x 30	168,999	20,900	15,100	62,000				
DTW-1212-TAK2, -TAS2	1,310	2 x 40	179,948	21,100	15,100	62,200				

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10' x 36' Two Cell

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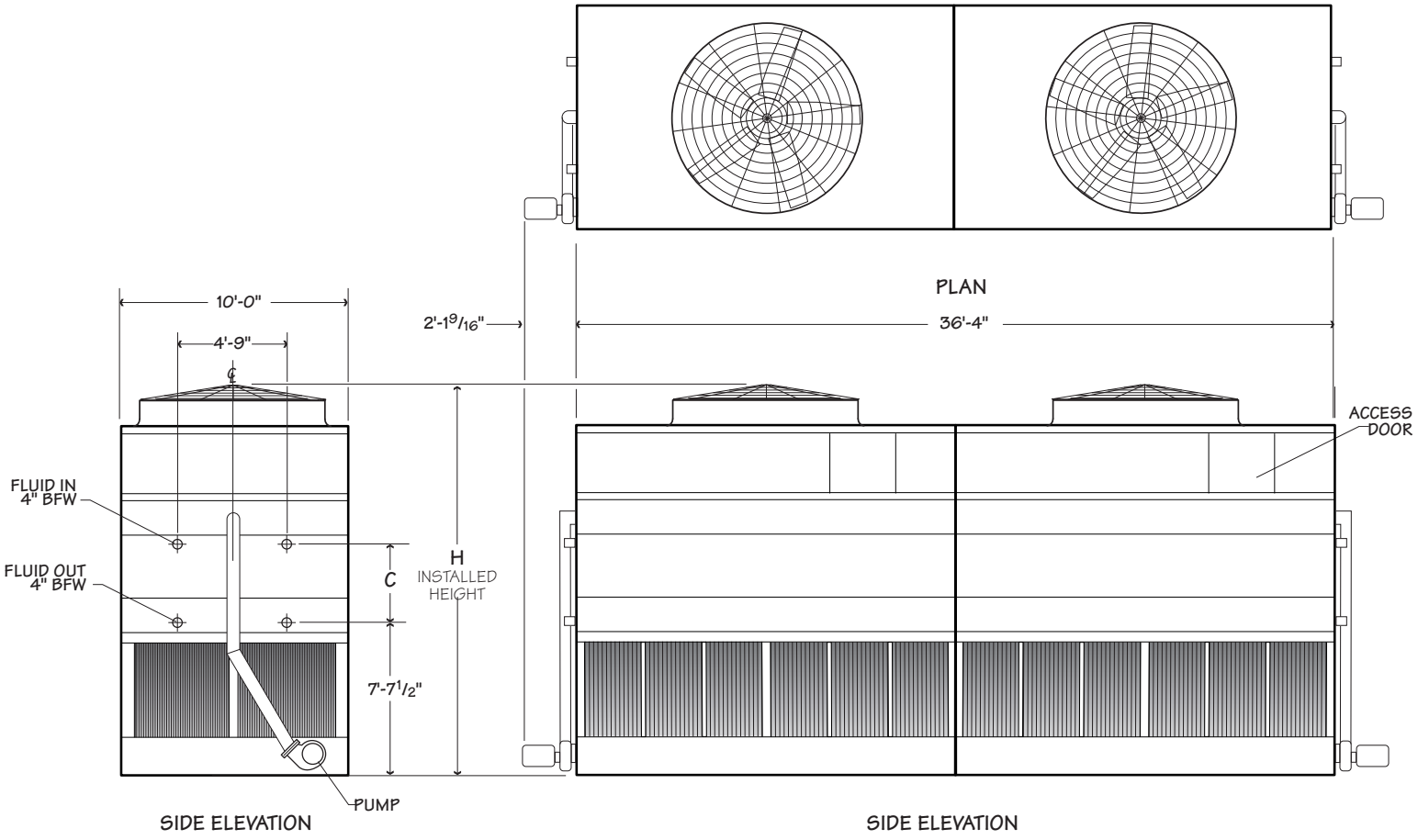


10' x 36' Two Cell

Model note1	Internal Coil Volume gal	Fan Motor hp	Airflow Rate cfm	Shipping Weight lb		Design Operating Weight lb	Dimensions note 2		Recirculating Flow Rate gpm	Pump Motor hp
				Weight/Cell	Heaviest Section		H	C		
DTW-1018-NAB2, -NAM2	844	2 x 10	141,923	17,700	14,100	54,400				
DTW-1018-PAB2, -PAM2	844	2 x 15	161,292	17,800	14,200	54,800				
DTW-1018-QAB2, -QAM2	844	2 x 20	176,351	17,900	14,300	54,800	17'-1 9/16"	2'-8 1/8"		
DTW-1018-RAB2, -RAM2	844	2 x 25	187,614	18,000	14,400	55,200				
DTW-1018-SAB2, -SAM2	844	2 x 30	199,684	18,100	14,500	55,200				
DTW-1018-NAC2, -NAN2	1,048	2 x 10	139,788	19,700	16,100	60,200				
DTW-1018-PAC2, -PAN2	1,048	2 x 15	159,454	19,800	16,200	60,400				
DTW-1018-QAC2, -QAN2	1,048	2 x 20	174,879	19,800	16,200	60,400	17'-10 9/16"	3'-5 1/8"		
DTW-1018-RAC2, -RAN2	1,048	2 x 25	186,359	20,000	16,400	60,800				
DTW-1018-SAC2, -SAN2	1,048	2 x 30	198,721	20,000	16,400	60,800				
DTW-1018-NAD2, -NAP2	1,252	2 x 10	137,593	21,600	14,800	65,800				
DTW-1018-PAD2, -PAP2	1,252	2 x 15	157,529	21,800	14,800	66,000				
DTW-1018-QAD2, -QAP2	1,252	2 x 20	173,335	21,800	14,800	66,000				
DTW-1018-RAD2, -RAP2	1,252	2 x 25	185,046	22,000	14,800	66,400				
DTW-1018-SAD2, -SAP2	1,252	2 x 30	197,721	22,000	14,800	66,400				
DTW-1018-TAD2, -TAP2	1,252	2 x 40	211,972	22,100	14,800	66,600	18'-7 9/16"	4'-2 1/8"	1,660	2 x 7.5
DTW-1018-PAJ2, -PAR2	1,392	2 x 15	153,524	23,000	16,100	69,600				
DTW-1018-QAJ2, -QAR2	1,392	2 x 20	170,030	23,100	16,100	69,800				
DTW-1018-RAJ2, -RAR2	1,392	2 x 25	182,407	23,200	16,100	70,000				
DTW-1018-SAJ2, -SAR2	1,392	2 x 30	196,110	23,300	16,100	70,200				
DTW-1018-TAJ2, -TAR2	1,392	2 x 40	211,434	23,400	16,100	70,400				
DTW-1018-PAE2, -PAQ2	1,454	2 x 15	155,534	23,800	16,900	71,800				
DTW-1018-QAE2, -QAQ2	1,454	2 x 20	171,722	23,900	16,900	71,800				
DTW-1018-RAE2, -RAQ2	1,454	2 x 25	183,695	24,000	16,900	72,200				
DTW-1018-SAE2, -SAQ2	1,454	2 x 30	196,700	24,100	16,900	72,200				
DTW-1018-TAE2, -TAQ2	1,454	2 x 40	211,123	24,200	16,900	72,600				
DTW-1018-PAK2, -PAS2	1,620	2 x 15	150,554	25,300	18,300	76,200	19'-4 9/16"	4'-11 1/8"		
DTW-1018-QAK2, -QAS2	1,620	2 x 20	167,436	25,400	18,300	76,200				
DTW-1018-RAK2, -RAS2	1,620	2 x 25	180,112	25,500	18,300	76,600				
DTW-1018-SAK2, -SAS2	1,620	2 x 30	194,312	25,600	18,300	76,600				
DTW-1018-TAK2, -TAS2	1,620	2 x 40	209,922	25,700	18,300	76,800				

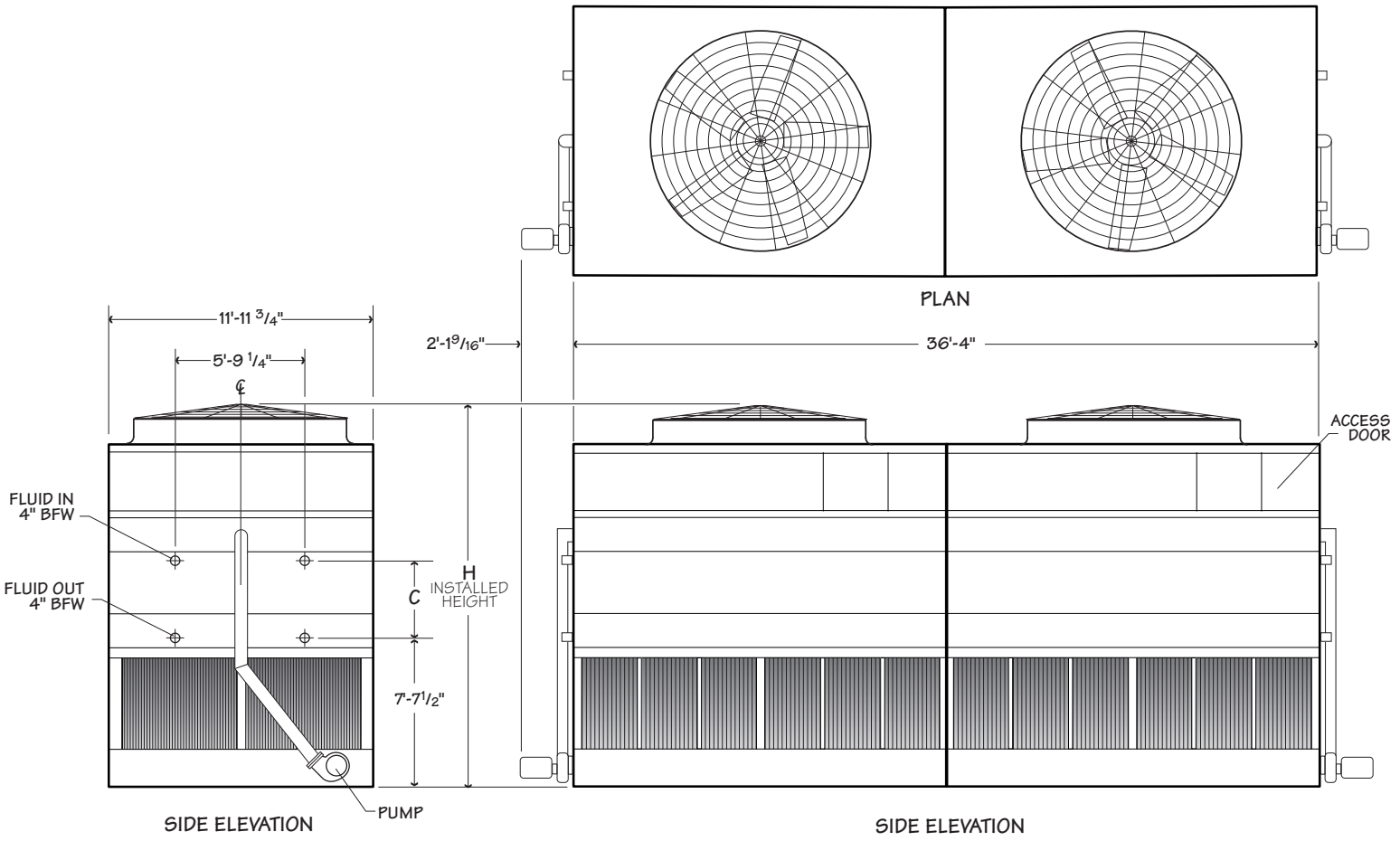
NOTE

1. The last digit of the model number(s) shown represents the number of cells. Multiple models shown on same line differ in external coil connection piping -reference factory drawings.
2. Inlet and outlet connection quantity and dimensions vary with design flowrate - reference factory drawings.
3. **Use this bulletin for preliminary layouts only.** Obtain current drawings from your sales representative.

12' x 36' Two Cell

Use this data for preliminary layouts only. Obtain current drawing from your sales representative.

UPDATE™ web-based selection software, available at spxcooling.com/update provides DT fluid cooler model recommendations based on customer's specific design requirements.

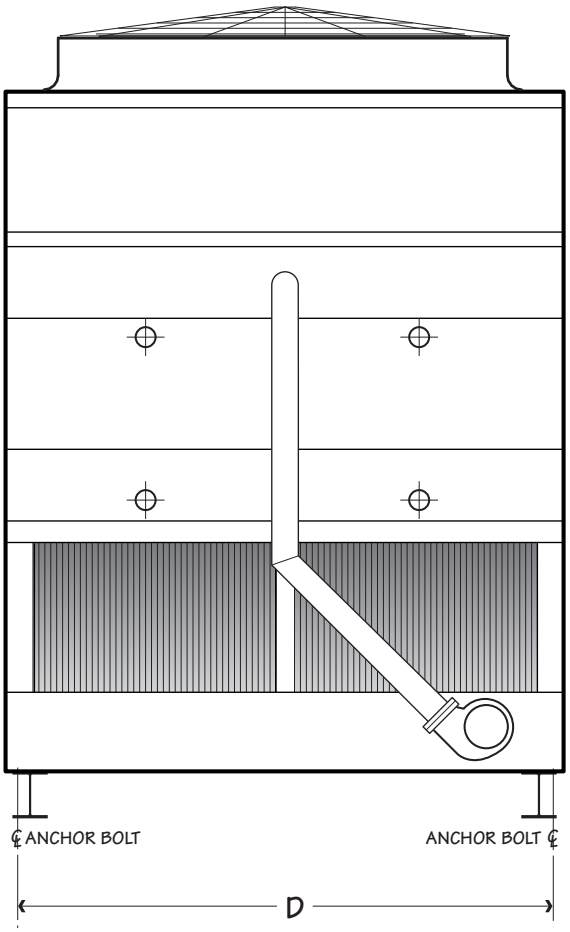


12' x 36' Two Cell

Model note1	Internal Coil Volume gal	Fan Motor hp	Airflow Rate cfm	Shipping Weight lb		Design Operating Weight lb	Dimensions note 2		Recirculating Flow Rate gpm	Pump Motor hp
				Weight/Cell	Heaviest Section		H	C		
DTW-1218-PAB2, -PAM2	1,020	2 x 15	190,208	20,800	16,600	64,000	17'-8⅛"	2'-8⅛"	1,880	2 x 7.5
DTW-1218-QAB2, -QAM2	1,020	2 x 20	208,558	20,800	16,700	64,200				
DTW-1218-RAB2, -RAM2	1,020	2 x 25	220,627	21,000	16,800	64,400				
DTW-1218-SAB2, -SAM2	1,020	2 x 30	233,741	21,000	16,900	64,600				
DTW-1218-PAC2, -PAN2	1,266	2 x 15	187,881	23,100	18,900	70,800	18'-3⅛"	3'-5⅛"		
DTW-1218-QAC2, -QAN2	1,266	2 x 20	206,692	23,100	19,000	70,800				
DTW-1218-RAC2, -RAN2	1,266	2 x 25	218,992	23,300	19,100	71,200				
DTW-1218-SAC2, -SAN2	1,266	2 x 30	232,402	23,300	19,200	71,200				
DTW-1218-PAD2, -PAP2	1,512	2 x 15	185,474	25,400	17,400	77,400	19'-0⅛"	4'-2⅛"		
DTW-1218-QAD2, -QAP2	1,512	2 x 20	204,755	25,400	17,400	77,600				
DTW-1218-RAD2, -RAP2	1,512	2 x 25	217,294	25,600	17,400	77,800				
DTW-1218-SAD2, -SAP2	1,512	2 x 30	231,003	25,600	17,400	78,000				
DTW-1218-TAD2, -TAP2	1,512	2 x 40	252,116	25,800	17,400	78,200				
DTW-1218-UAD2, -UAP2	1,512	2 x 50	265,052	25,800	17,400	78,200				
DTW-1218-QAJ2, -QAR2	1,682	2 x 20	200,810	27,000	18,900	82,000				
DTW-1218-RAJ2, -RAR2	1,682	2 x 25	213,953	27,100	18,900	82,400				
DTW-1218-SAJ2, -SAR2	1,682	2 x 30	228,613	27,200	18,900	82,400				
DTW-1218-TAJ2, -TAR2	1,682	2 x 40	251,316	27,300	18,900	82,600				
DTW-1218-UAJ2, -UAR2	1,682	2 x 50	265,300	27,300	18,900	82,600				
DTW-1218-VAJ2, -VAR2	1,682	2 x 60	275,764	27,700	18,900	83,400				
DTW-1218-QAE2, -QAQ2	1,758	2 x 20	202,735	27,900	19,900	84,600	19'-9⅛"	4'-11⅛"		
DTW-1218-RAE2, -RAQ2	1,758	2 x 25	215,535	28,100	19,900	84,800				
DTW-1218-SAE2, -SAQ2	1,758	2 x 30	229,566	28,100	19,900	85,000				
DTW-1218-TAE2, -TAQ2	1,758	2 x 40	251,058	28,200	19,900	85,200				
DTW-1218-UAE2, -UAQ2	1,758	2 x 50	264,131	28,300	19,900	85,200				
DTW-1218-QAK2, -QAS2	1,956	2 x 20	197,736	29,700	21,600	89,800				
DTW-1218-RAK2, -RAS2	1,956	2 x 25	211,151	29,900	21,600	90,000				
DTW-1218-SAK2, -SAS2	1,956	2 x 30	226,232	29,900	21,600	90,200				
DTW-1218-TAK2, -TAS2	1,956	2 x 40	249,544	30,000	21,600	90,400				
DTW-1218-UAK2, -UAS2	1,956	2 x 50	263,797	30,000	21,600	90,400				
DTW-1218-VAK2, -VAS2	1,956	2 x 60	274,425	30,400	21,600	91,200				

NOTE

1. The last digit of the model number(s) shown represents the number of cells. Multiple models shown on same line differ in external coil connection piping -reference factory drawings.
2. Inlet and outlet connection quantity and dimensions vary with design flowrate - reference factory drawings.
3. **Use this bulletin for preliminary layouts only.** Obtain current drawings from your sales representative.



Model	D	Maximum Deflection
DTW-8509	8'-3⅞"	½"
DTW-8512	8'-3⅞"	½"
DTW-1012	9'-8⅛"	½"
DTW-1018	9'-8⅛"	½"
DTW-1212	11'-8⅜"	½"
DTW-1218	11'-8⅜"	½"

NOTE

1. The recommended supporting steel arrangement for the DT fluid cooler consists of parallel I-beams running the full length of the unit.
2. Supporting steel is to be designed, constructed and furnished by others.
3. The top surface of the supporting steel must be framed flush and level.
4. If vibration isolators are used, they must be placed underneath the supporting steel beams.
5. Consider provisions for access to the fluid cooler if the supporting steel is elevated above grade.
6. **Use this bulletin for preliminary layouts only.** Obtain current drawings from your sales representative.

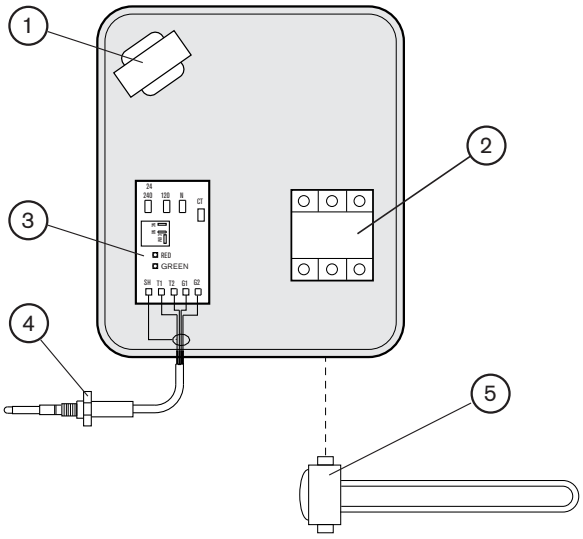
The purpose of a basin heater is to prevent recirculating water from freezing in the collection basin during periods of shutdown or standby operation. Heater systems are sized according to tower model and ambient temperature to give maximum protection against freezing in the collection basin. They are not intended to protect the coil and other components from icing.

An automatic basin water heater system consists of the following components:

- Stainless steel electric immersion heater(s). Threaded couplings are provided in the side of the collection basin.
- NEMA 4 enclosure containing:
  Transformer to convert power supply to 24 volts for control circuit.
  Magnetic contactor to energize heater.
  Solid state circuit board for temperature and low-water cutoff.
  The enclosure may be mounted on the side of the fluid cooler.
- Control probe in the collection basin to monitor water temperature and level.

Heater components are typically shipped separately for installation by others.

Heat trace and insulation of the pump may be optionally selected.



1. Transformer
2. Contactor
3. Solid State Relay Card
4. Sensor Probe
5 Heater Element(s)

Heater Size kW			
Model	0°F Ambient	-20°F Ambient	-40°F Ambient
DTW-8509	6	7.5	12
DTW-8512	7.5	12	2 x 7.5
DTW-1012	9	12	2 x 7.5
DTW-1018	12	2 x 9	2 x 12
DTW-1212	12	2 x 7.5	2 x 9
DTW-1218	2 x 7.5	2 x 12	2 x 12

Fluid Cooler Recirculating Water

When the ambient air temperature falls below 32°F, the recirculating water within the fluid cooler can freeze. *Marley Technical Report #H-003* "Cooling Towers and Freezing Weather" describes how to prevent freezing during operation. Ask your sales representative for a copy or download a copy at spxcooling.com. During shutdown, water collects in the basin and may freeze solid. You can prevent freezing by adding heat to the water left in the basin or, you can drain the fluid cooler basin and all exposed pipework at shutdown.

Remote Sump Application

With this type of system, recirculating water used by the fluid cooler for evaporative heat rejection is pumped to the fluid cooler spray system from a remote tank and flows by gravity from the fluid cooler back to the tank. At shutdown, all exposed water drains into the tank, located in a heated space, where it is safe from freezing. The amount of water needed to successfully operate the system depends on fluid cooler size and volume of water contained in the piping system to and from the fluid cooler. Select a tank large enough to contain those combined volumes, plus a level sufficient to maintain a flooded suction on the pump. Control makeup water according to the level where the tank stabilizes during operation.

System Cleanliness

The DT Fluid Cooler can be a very effective air washer. Atmospheric dust and particulates able to pass through the relatively small louver or screen openings will enter the recirculating water system. Increased concentrations can intensify systems maintenance by clogging screens and strainers—and smaller particulates can coat system heat transfer surfaces. In areas of low flow velocity, such as the collection basin, sedimentary deposits can provide a breeding ground for bacteria. In areas prone to dust and particulates, consider installing some means for keeping the collection basin clean. Typical devices include basin sweeper piping in conjunction with side stream filters and a variety of filtration media.

Blowdown

Blowdown or bleed-off is the continuous removal of a small portion of the water from the open recirculating system. Blowdown is used to prevent the dissolved solids from concentrating to the point where they will form scale. The amount of blowdown required depends on the heat load and the composition of the makeup water. The DT fluid cooler is equipped with a blowdown line with metering valve connected directly to the overflow. Specific blowdown adjustment instructions and additional blowdown information can be found in the applicable *DT Fluid Cooler User Manual.*

Water Treatment

To control the buildup of dissolved solids resulting from water evaporation, as well as airborne impurities and biological contaminants including Legionella, an effective, consistent water treatment program is required. Simple blowdown may be adequate to control corrosion and scale, but biological contamination can only be controlled with biocides. An acceptable water treatment program must be compatible with the variety of materials incorporated in the fluid cooler. Ideally the pH of the recirculating water should fall between 6.5 and 9.0. Batch feeding of the chemicals directly into the fluid cooler is not recommended since localized damage is possible. Specific startup instructions and additional water quality recommendations can be found in the *DT Fluid Cooler User Manual* which accompanies the fluid cooler and also is available from your sales representative.

Air Circulation

Considering the air path entering and exiting the fluid cooler is critical to ensure the fluid cooler operates as designed. Obstructions near the air inlet(s) and discharge should be located a sufficient distance away so as not to impede airflow. If the fluid cooler is to be located in an enclosure or near tall barriers, the air discharge should be positioned at an elevation higher than the top of the barriers to discourage recirculation of the hot discharge air. The fluid cooler must be located at such distance and direction to avoid the possibility of contaminated discharge air being drawn into building fresh air intake ducts.

Piping

Always follow accepted engineering practices during design and installation of fluid cooler piping. All piping must be supported independent of the fluid cooler—no loads are to be supported by the fluid cooler coil connections or fluid cooler structure. Precautions must be taken to protect the fluid cooler from excess heat generated during welding.

Furnish an induced-draft, counterflow, factory assembled, galvanized steel, closed circuit fluid cooler. Unit shall consist of _____ cell(s), as shown on plans. The limiting overall dimensions of the fluid cooler shall be _____ wide, _____ long, and _____ high to the top of the fan guard. Total operating horsepower of all fans shall not exceed _____ hp. Fluid Cooler shall be similar and equal in all aspects to DT Fluid Cooler Model _____.

Collection Basin and Casing: The collection basin and casing shall be heavy-gauge G-235 galvanized steel. To reduce potential for leaks, bolts shall be used in all submerged areas; self-tapping screws are not permitted. A factory-installed, float operated, mechanical make-up valve shall be included. An overflow and drain connection shall be provided in each cell. The basin floor shall slope towards the drain to allow complete flushing of debris. The collection basin shall be tested for leaks at the factory.

Fan Motor: Fan motor(s) shall be NEMA Premium Efficiency, TEFC, 1.15 service factor, variable torque, inverter ready and insulated for cooling tower duty, with each motor serving a single fan drive assembly. Motors shall be name plated for 3 phase, 60 Hz, ___ volt operation.

Fan: Fan(s) shall be propeller-type, incorporating aluminum alloy blades attached to galvanized hubs with U-bolts. Blades shall be individually adjustable. Fan(s) shall be driven through a right angle, industrial duty, oil lubricated, geared speed reducer that requires no oil changes for the first five (5) years of operation. All gearbox bearings shall be rated at an L_{10A} service life of 100,000 hours or greater and the gear sets shall have AGMA Quality Class of 9 or greater. The top of the fan cylinder shall be equipped with a conical, non-sagging, removable fan guard, fabricated of welded 5/16" and 7 gauge rods, and hot dip galvanized after fabrication.

Pump: Recirculation pump(s) shall be centrifugal with mechanical seal, mounted to the collection basin in conjunction with a suction assembly, and close-coupled with a ___hp TEFC pump motor name plated for 3 phase, 60 Hz, ___volt operation. Recirculation piping shall be schedule 40 PVC. A blowdown line with metering valve shall be connected directly to the fluid cooler overflow.

Heat Transfer Coil: Coil(s) shall be constructed of continuous serpentine circuits assembled into fully welded headers and hot dip galvanized after fabrication. Each coil shall be tested at 375 psig air pressure under water. Coil tubes shall be sloped for free drainage of fluid.

Water Distribution: A pressurized spray system shall distribute water evenly over the coil surface with large-orifice, clog resistant spray nozzles that are threaded for easy removal. The distribution header shall be self-draining, with removable corrosion resistant PVC branch arms.

Drift Eliminators: Drift eliminators shall be 17 mil thick PVC with a minimum of three changes in air direction, and shall limit drift losses to 0.001% or less of the design recirculating water flow rate Eliminators shall be easily removable for inspection.

Louvers: Air inlet louvers shall be a minimum of 5" air travel, triple pass PVC to limit water splash-out and prevent direct sunlight from entering the collection basin. For ease of service and long life, PVC louvers shall be enclosed in a removable frame that attaches to the air inlet without tools. Louvers with less than three changes in air direction are unacceptable.

DT fluid cooler

ENGINEERING DATA AND SPECIFICATIONS

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