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 12° 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 IEC 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 225 kg and 450 kg 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 an IP56 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

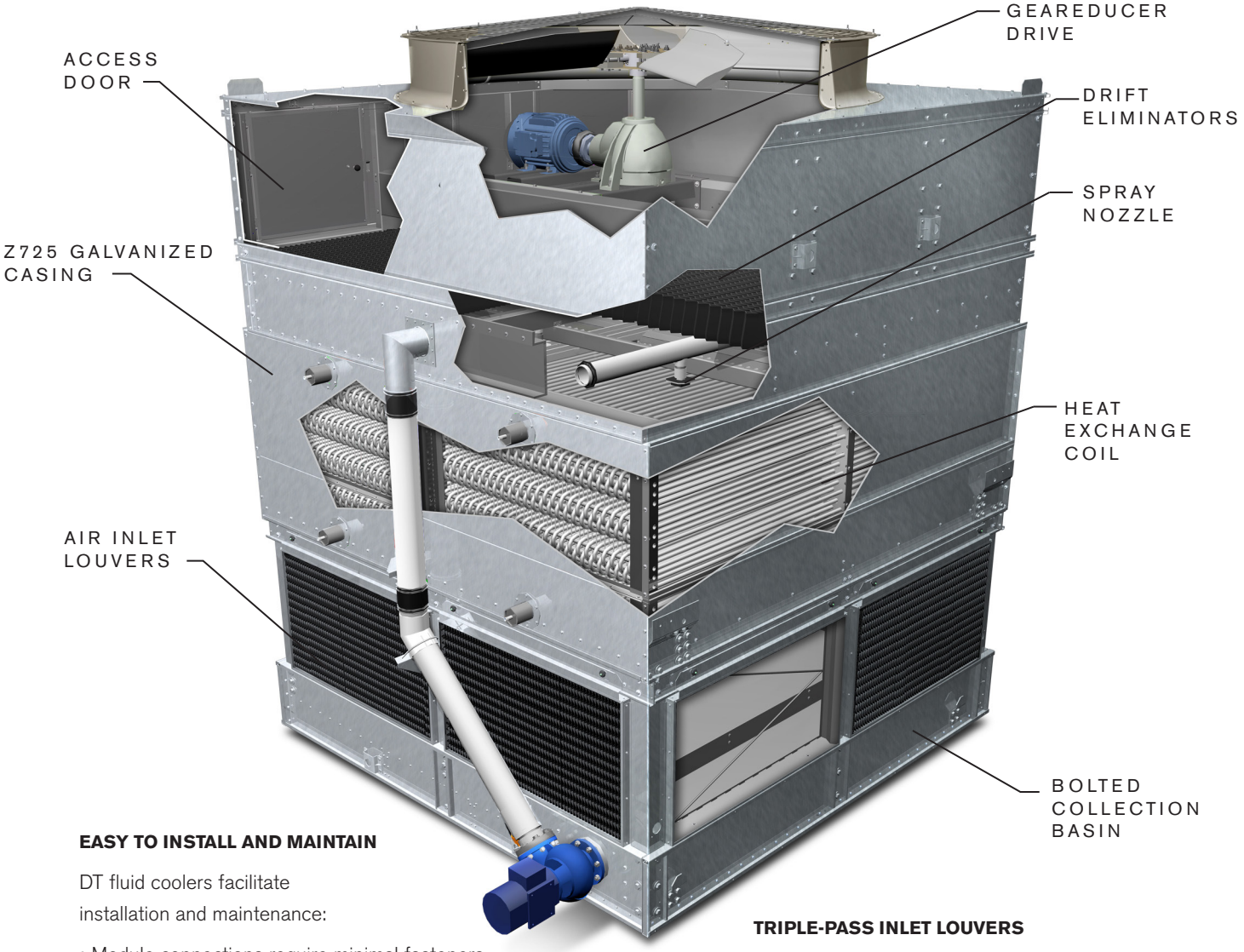
Self-draining spray headers and large orifice spray nozzles help prevent debris build-up and clogging. Self-draining spray headers limit potential ice buildup when not operational; spray nozzles mount to the bottom of the spray pipes.

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.

2.6m x 2.7m Single Cell

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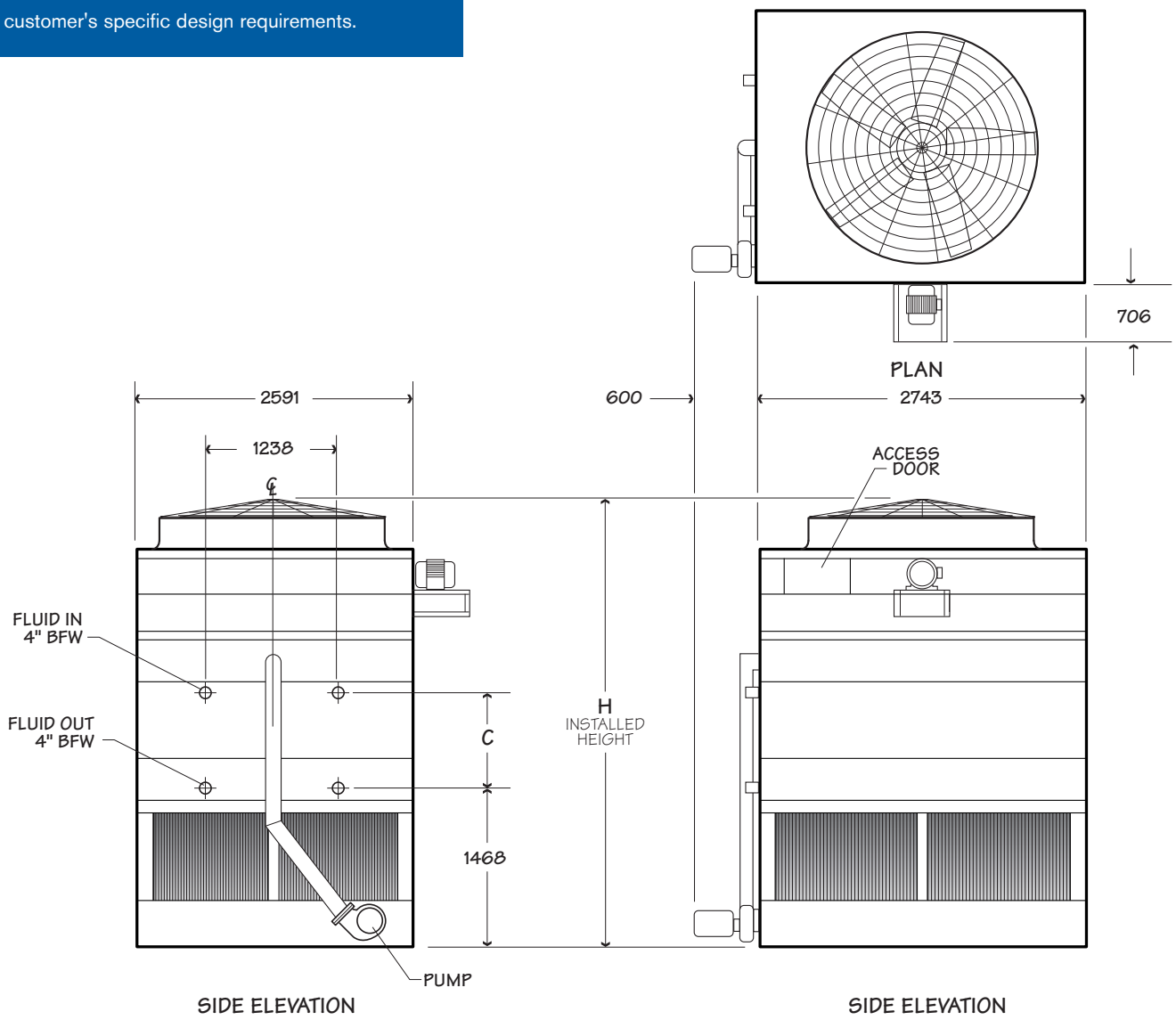

2.6m x 2.7m Single Cell

Model note1	Internal Coil Volume L	Fan Motor kW	Airflow Rate m^3/s	Shipping Weight kg		Design Operating Weight kg	Dimensions mm note 2		Recirculating Flow Rate L/s	Pump Motor kW
				Weight/Cell	Heaviest Section		H	C		
DTW-8509-MAB1, -MAM1	681	5.5	17.5	3,950	3,220	5,720	3845	816	22.4	1.5
DTW-8509-NAB1, -NAM1	681	7.5	18.9	3,950	3,220	5,720				
DTW-8509-PAB1, -PAM1	681	11	21.0	3,990	3,270	5,760				
DTW-8509-QAB1, -QAM1	681	15	21.9	3,990	3,270	5,810				
DTW-8509-MAC1, -MAN1	840	55	17.4	4,350	3,630	6,310	4074	1045		
DTW-8509-NAC1, -NAN1	840	7.5	18.8	4,350	3,630	6,310				
DTW-8509-PAC1, -PAN1	840	11	20.9	4,400	3,670	6,350				
DTW-8509-QAC1, -QAN1	840	15	21.9	4,400	3,670	6,350				
DTW-8509-MAD1, -MAP1	996	5.5	17.2	4,720	3,180	6,850	4302	1273		
DTW-8509-NAD1, -NAP1	996	7.5	18.6	4,760	3,180	6,850				
DTW-8509-PAD1, -PAP1	996	11	20.9	4,810	3,220	6,890				
DTW-8509-QAD1, -QAP1	996	15	21.8	4,810	3,270	6,940				
DTW-8509-MAJ1, -MAR1	1,102	5.5	16.7	5,030	3,450	7,260				
DTW-8509-NAJ1, -NAR1	1,102	7.5	18.3	5,030	3,490	7,260				
DTW-8509-PAJ1, -PAR1	1,102	11	20.8	5,080	3,540	7,300				
DTW-8509-QAJ1, -QAR1	1,102	15	21.8	5,130	3,540	7,350				
DTW-8509-MAE1, -MAQ1	1,155	5.5	17.0	5,170	3,580	7,440	4531	1502		
DTW-8509-NAE1, -NAQ1	1,155	7.5	18.5	5,170	3,630	7,440				
DTW-8509-PAE1, -PAQ1	1,155	11	20.8	5,220	3,670	7,530				
DTW-8509-QAE1, -QAQ1	1,155	15	21.7	5,260	3,670	7,530				
DTW-8509-MAK1, -MAS1	1,276	5.5	16.4	5,440	3,900	7,850				
DTW-8509-NAK1, -NAS1	1,276	7.5	18.1	5,440	3,900	7,850				
DTW-8509-PAK1, -PAS1	1,276	11	20.6	5,530	3,950	7,890				
DTW-8509-QAK1, -QAS1	1,276	15	21.6	5,530	3,950	7,940				

NOTE

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2.6m x 3.7m Single Cell

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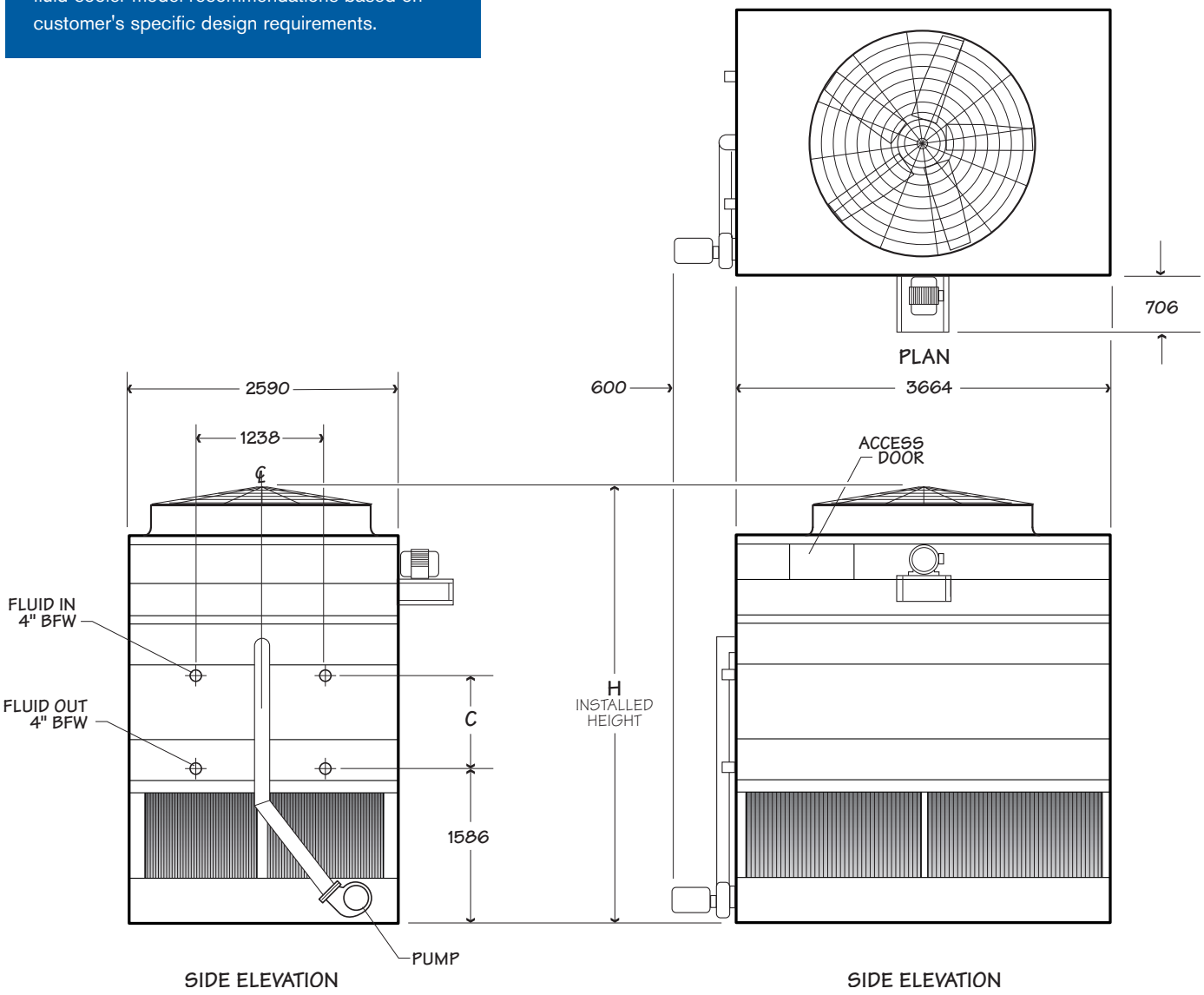

2.6m x 3.7m Single Cell

Model note1	Internal Coil Volume L	Fan Motor kW	Airflow Rate m^3/s	Shipping Weight kg		Design Operating Weight kg	Dimensions mm note 2		Recirculating Flow Rate L/s	Pump Motor kW
				Weight/Cell	Heaviest Section		H	C		
DTW-8512-NAB1, -NAM1	905	7.5	22.7	4,630	3,760	7,030	3962	816	33.4	2.2
DTW-8512-PAB1, -PAM1	905	11	26.0	4,670	3,810	7,080				
DTW-8512-QAB1, -QAM1	905	15	27.6	4,720	3,860	7,080				
DTW-8512-RAB1, -RAM1	905	18.5	28.6	4,760	3,900	7,170				
DTW-8512-NAC1, -NAN1	1,120	7.5	22.5	5,170	4,260	7,760	4191	1045		
DTW-8512-PAC1, -PAN1	1,120	11	25.9	5,220	4,350	7,800				
DTW-8512-QAC1, -QAN1	1,120	15	27.5	5,220	4,350	7,800				
DTW-8512-RAC1, -RAN1	1,120	18.5	28.5	5,310	4,450	7,890				
DTW-8512-NAD1, -NAP1	1,332	7.5	22.3	5,670	3,900	8,480	4420	1273		
DTW-8512-PAD1, -PAP1	1,332	11	25.8	5,720	3,950	8,530				
DTW-8512-QAD1, -QAP1	1,332	15	27.4	5,720	3,990	8,570				
DTW-8512-RAD1, -RAP1	1,332	18.5	28.4	5,810	4,040	8,620				
DTW-8512-SAD1, -SAP1	1,332	22	29.5	5,810	4,080	8,660				
DTW-8512-NAJ1, -NAR1	1,476	7.5	21.6	5,990	4,220	8,940				
DTW-8512-PAJ1, -PAR1	1,476	11	25.4	6,030	4,260	8,980				
DTW-8512-QAJ1, -QAR1	1,476	15	27.1	6,030	4,260	9,030				
DTW-8512-RAJ1, -RAR1	1,476	18.5	28.2	6,120	4,350	9,070				
DTW-8512-SAJ1, -SAR1	1,476	22	29.5	6,120	4,400	9,120				
DTW-8512-NAE1, -NAQ1	1,548	7.5	22.0	6,210	4,450	9,250	4648	1502		
DTW-8512-PAE1, -PAQ1	1,548	11	25.6	6,260	4,490	9,300				
DTW-8512-QAE1, -QAQ1	1,548	15	27.3	6,310	4,540	9,300				
DTW-8512-RAE1, -RAQ1	1,548	18.5	28.3	6,350	4,580	9,390				
DTW-8512-SAE1, -SAQ1	1,548	22	29.4	6,400	4,630	9,390				
DTW-8512-NAK1, -NAS1	1,711	7.5	21.2	6,580	4,810	9,750				
DTW-8512-PAK1, -PAS1	1,711	11	25.2	6,620	4,850	9,840				
DTW-8512-QAK1, -QAS1	1,711	15	26.9	6,670	4,900	9,840				
DTW-8512-RAK1, -RAS1	1,711	18.5	28.0	6,710	4,940	9,930				
DTW-8512-SAK1, -SAS1	1,711	22	29.3	6,760	4,990	9,930				

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.
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3.0m x 3.7m Single Cell

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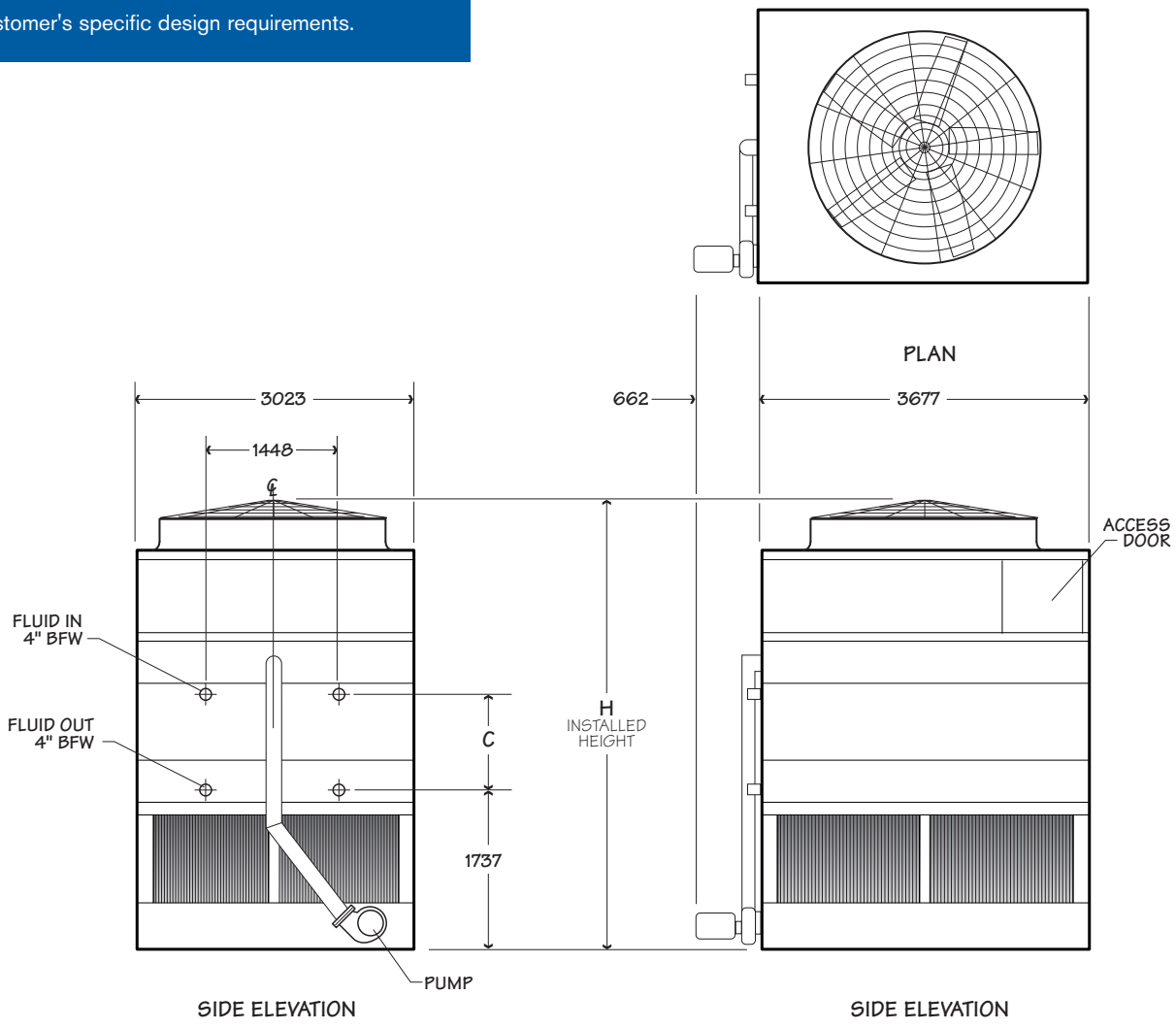

3.0m x 3.7m Single Cell

Model note1	Internal Coil Volume L	Fan Motor kW	Airflow Rate m^3/s	Shipping Weight kg		Design Operating Weight kg	Dimensions mm note 2		Recirculating Flow Rate L/s	Pump Motor kW
				Weight/Cell	Heaviest Section		H	C		
DTW-1012-NAB1, -NAM1	1,079	7.5	25.2	5,760	4,720	8,660	4634	816	37.9	3.7
DTW-1012-PAB1, -PAM1	1,079	11	27.8	5,810	4,760	8,710				
DTW-1012-QAB1, -QAM1	1,079	15	30.0	5,850	4,760	8,710				
DTW-1012-RAB1, -RAM1	1,079	18.5	31.5	5,900	4,850	8,800				
DTW-1012-NAC1, -NAN1	1,336	7.5	24.9	6,400	5,310	9,530	4863	1045		
DTW-1012-PAC1, -PAN1	1,336	11	27.5	6,440	5,400	9,570				
DTW-1012-QAC1, -QAN1	1,336	15	29.8	6,440	5,400	9,570				
DTW-1012-RAC1, -RAN1	1,336	18.5	31.4	6,530	5,440	9,660				
DTW-1012-NAD1, -NAP1	1,590	7.5	24.6	6,990	4,720	10,390	5091	1273		
DTW-1012-PAD1, -PAP1	1,590	11	27.3	7,030	4,720	10,430				
DTW-1012-QAD1, -QAP1	1,590	15	29.6	7,080	4,720	10,430				
DTW-1012-RAD1, -RAP1	1,590	18.5	31.2	7,120	4,720	10,520				
DTW-1012-SAD1, -SAP1	1,590	22	33.5	7,170	4,720	10,520				
DTW-1012-NAJ1, -NAR1	1,768	7.5	23.8	7,390	5,130	10,930				
DTW-1012-PAJ1, -PAR1	1,768	11	26.6	7,440	5,130	11,020				
DTW-1012-QAJ1, -QAR1	1,768	15	29.2	7,440	5,130	11,020				
DTW-1012-RAJ1, -RAR1	1,768	18.5	31.0	7,530	5,130	11,070				
DTW-1012-SAJ1, -SAR1	1,768	22	33.4	7,530	5,130	11,110				
DTW-1012-PAE1, -PAQ1	1,847	11	27.0	7,710	5,400	11,340	5320	1502		
DTW-1012-QAE1, -QAQ1	1,847	15	29.4	7,710	5,400	11,340				
DTW-1012-RAE1, -RAQ1	1,847	18.5	31.1	7,800	5,400	11,430				
DTW-1012-SAE1, -SAQ1	1,847	22	33.4	7,800	5,400	11,430				
DTW-1012-PAK1, -PAS1	2,052	11	26.1	8,160	5,850	12,020				
DTW-1012-QAK1, -QAS1	2,052	15	28.8	8,160	5,850	12,020				
DTW-1012-RAK1, -RAS1	2,052	18.5	30.6	8,260	5,850	12,110				
DTW-1012-SAK1, -SAS1	2,052	22	33.2	8,260	5,850	12,110				

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3.7m x 3.7m Single Cell

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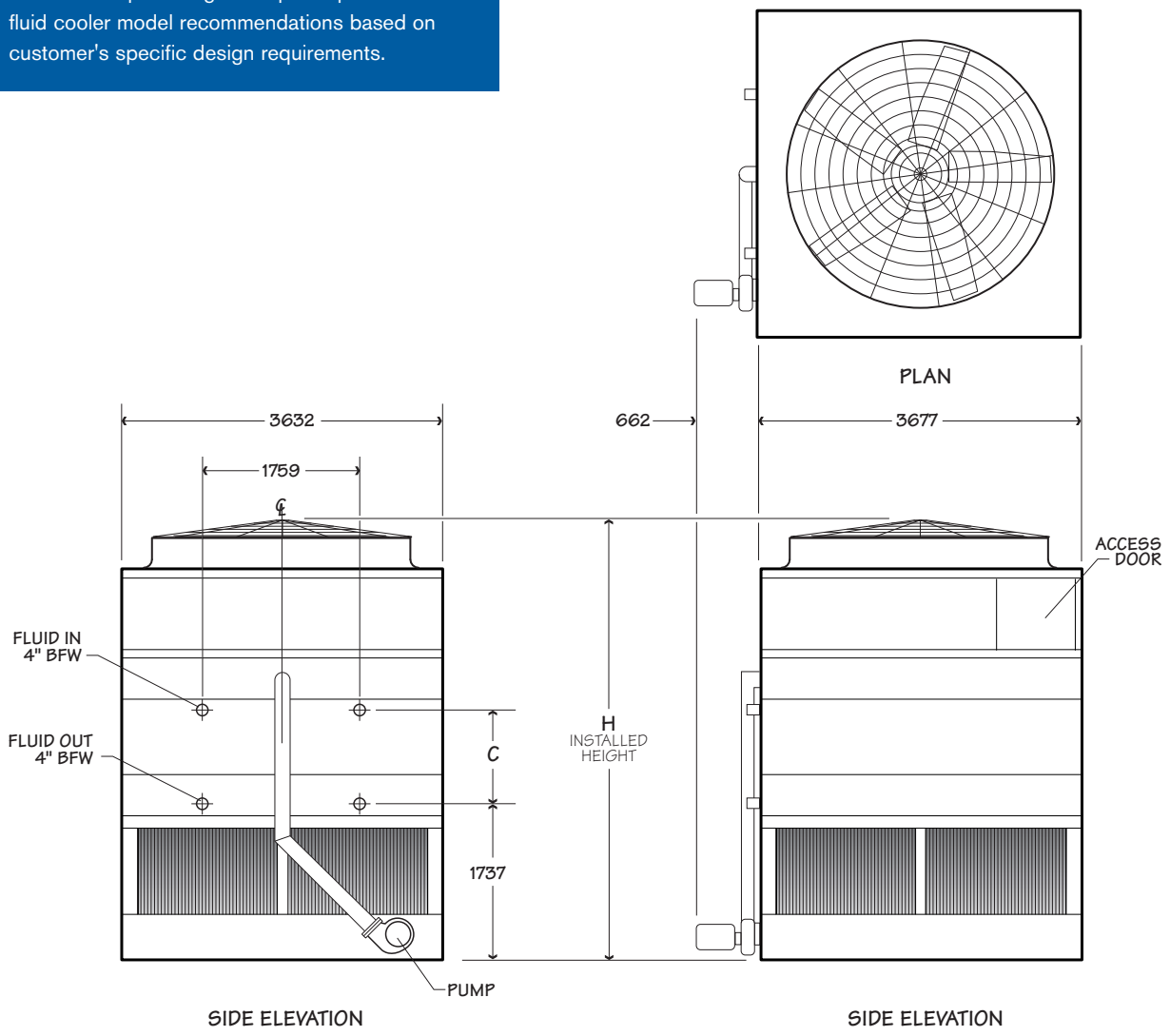

3.7m x 3.7m Single Cell

Model note1	Internal Coil Volume L	Fan Motor kW	Airflow Rate m^3/s	Shipping Weight kg		Design Operating Weight kg	Dimensions mm note 2		Recirculating Flow Rate L/s	Pump Motor kW
				Weight/Cell	Heaviest Section		H	C		
DTW-1212-NAB1, -NAM1	1,306	7.5	29.9	6,580	5,400	9,980	4634	816	44.2	3.7
DTW-1212-PAB1, -PAM1	1,306	11	33.3	6,620	5,440	10,020				
DTW-1212-QAB1, -QAM1	1,306	15	36.1	6,620	5,440	10,020				
DTW-1212-RAB1, -RAM1	1,306	18.5	38.1	6,710	5,530	10,120				
DTW-1212-SAB1, -SAM1	1,306	22	40.4	6,710	5,530	10,120				
DTW-1212-NAC1, -NAN1	1,613	7.5	29.5	7,300	6,120	11,020	4863	1045		
DTW-1212-PAC1, -PAN1	1,613	11	33.0	7,350	6,170	11,070				
DTW-1212-QAC1, -QAN1	1,613	15	35.8	7,350	6,170	11,070				
DTW-1212-RAC1, -RAN1	1,613	18.5	37.9	7,440	6,260	11,160				
DTW-1212-SAC1, -SAN1	1,613	22	40.3	7,440	6,260	11,160				
DTW-1212-NAD1, -NAP1	1,923	7.5	29.1	8,030	5,530	12,020	5091	1273		
DTW-1212-PAD1, -PAP1	1,923	11	32.7	8,070	5,530	12,110				
DTW-1212-QAD1, -QAP1	1,923	15	35.6	8,070	5,530	12,110				
DTW-1212-RAD1, -RAP1	1,923	18.5	37.6	8,160	5,530	12,200				
DTW-1212-SAD1, -SAP1	1,923	22	40.1	8,160	5,530	12,200				
DTW-1212-PAJ1, -PAR1	2,135	11	31.9	8,530	5,990	12,790				
DTW-1212-QAJ1, -QAR1	2,135	15	35.0	8,570	5,990	12,790				
DTW-1212-RAJ1, -RAR1	2,135	18.5	37.3	8,620	5,990	12,880				
DTW-1212-SAJ1, -SAR1	2,135	22	40.0	8,660	5,990	12,880				
DTW-1212-TAJ1, -TAR1	2,135	30	42.5	8,710	5,990	12,930				
DTW-1212-PAE1, -PAQ1	2,230	11	32.3	8,850	6,310	13,150	5320	1502		
DTW-1212-QAE1, -QAQ1	2,230	15	35.3	8,850	6,310	13,200				
DTW-1212-RAE1, -RAQ1	2,230	18.5	37.4	8,940	6,310	13,250				
DTW-1212-SAE1, -SAQ1	2,230	22	40.0	8,940	6,310	13,290				
DTW-1212-PAK1, -PAS1	2,479	11	31.3	9,390	6,850	13,970				
DTW-1212-QAK1, -QAS1	2,479	15	34.6	9,390	6,850	13,970				
DTW-1212-RAK1, -RAS1	2,479	18.5	36.9	9,480	6,850	14,060				
DTW-1212-SAK1, -SAS1	2,479	22	39.7	9,480	6,850	14,060				
DTW-1212-TAK1, -TAS1	2,479	30	42.3	9,570	6,850	14,110				

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3.0m x 5.5m Single Cell

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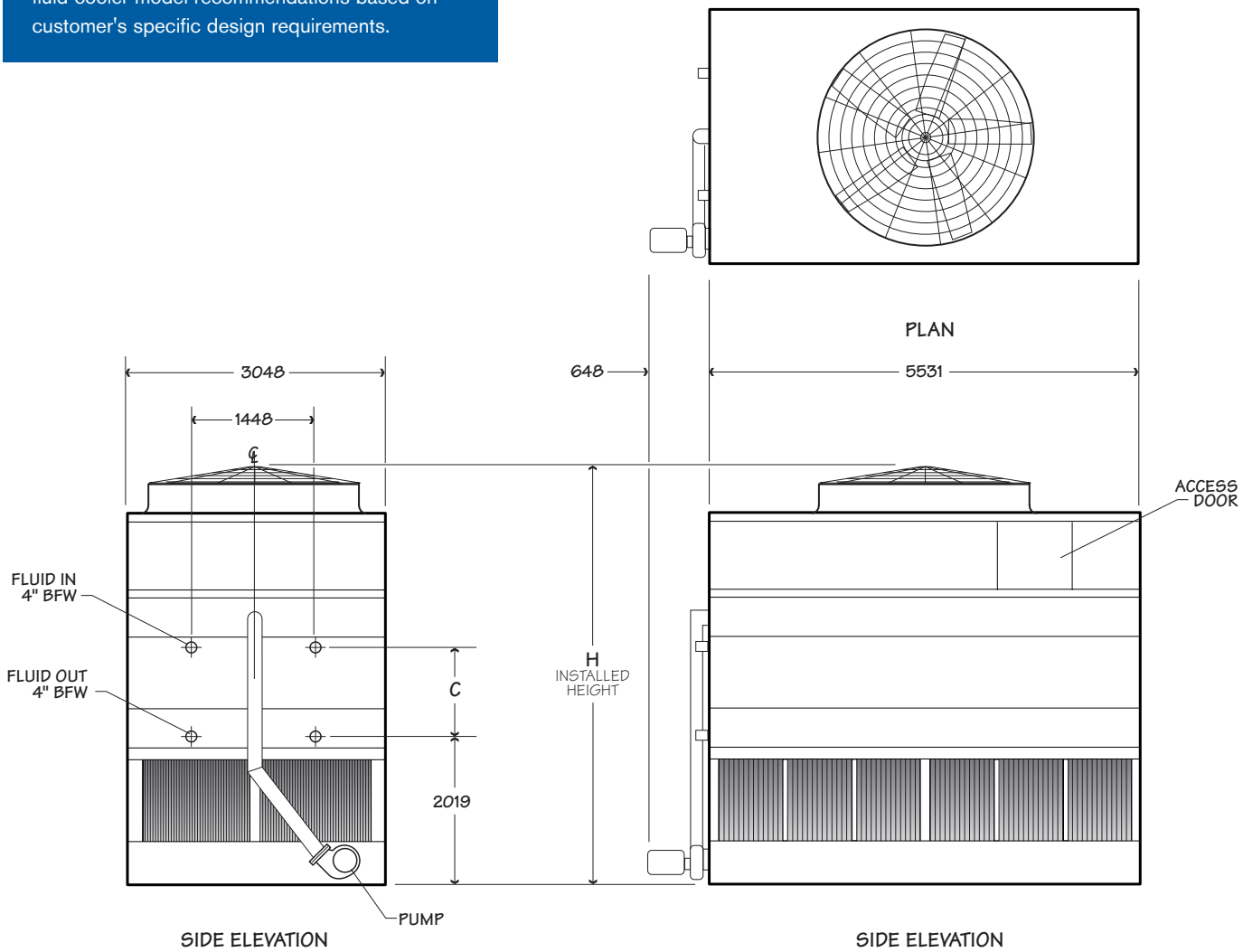

3.0m x 5.5m Single Cell

Model note1	Internal Coil Volume L	Fan Motor kW	Airflow Rate m^3/s	Shipping Weight kg		Design Operating Weight kg	Dimensions mm note 2		Recirculating Flow Rate L/s	Pump Motor kW
				Weight/Cell	Heaviest Section		H	C		
DTW-1018-NAB1, -NAM1	1,597	7.5	33.4	8,030	6,400	12,340	4916	816	52.4	5.5
DTW-1018-PAB1, -PAM1	1,597	11	37.9	8,070	6,440	12,430				
DTW-1018-QAB1, -QAM1	1,597	15	41.4	8,120	6,490	12,430				
DTW-1018-RAB1, -RAM1	1,597	18.5	44.1	8,160	6,530	12,520				
DTW-1018-SAB1, -SAM1	1,597	22	46.9	8,210	6,580	12,520				
DTW-1018-NAC1, -NAN1	1,984	7.5	32.9	8,940	7,300	13,650	5145	1046		
DTW-1018-PAC1, -PAN1	1,984	11	37.5	8,980	7,350	13,700				
DTW-1018-QAC1, -QAN1	1,984	15	41.1	8,980	7,350	13,700				
DTW-1018-RAC1, -RAN1	1,984	18.5	43.8	9,070	7,440	13,790				
DTW-1018-SAC1, -SAN1	1,984	22	46.7	9,070	7,440	13,790				
DTW-1018-NAD1, -NAP1	2,370	7.5	32.3	9,800	6,710	14,920	5374	1273		
DTW-1018-PAD1, -PAP1	2,370	11	37.0	9,890	6,710	14,970				
DTW-1018-QAD1, -QAP1	2,370	15	40.7	9,890	6,710	14,970				
DTW-1018-RAD1, -RAP1	2,370	18.5	43.5	9,980	6,710	15,060				
DTW-1018-SAD1, -SAP1	2,370	22	46.5	9,980	6,710	15,060				
DTW-1018-TAD1, -TAP1	2,370	30	49.8	10,020	6,710	15,100				
DTW-1018-PAJ1, -PAR1	2,635	11	36.1	10,430	7,300	15,790				
DTW-1018-QAJ1, -QAR1	2,635	15	40.0	10,480	7,300	15,830				
DTW-1018-RAJ1, -RAR1	2,635	18.5	42.9	10,520	7,300	15,880				
DTW-1018-SAJ1, -SAR1	2,635	22	46.1	10,570	7,300	15,920				
DTW-1018-TAJ1, -TAR1	2,635	30	49.7	10,610	7,300	15,970				
DTW-1018-PAE1, -PAQ1	2,752	11	36.6	10,800	7,670	16,280	5602	1502		
DTW-1018-QAE1, -QAQ1	2,752	15	40.4	10,840	7,670	16,280				
DTW-1018-RAE1, -RAQ1	2,752	18.5	43.2	10,890	7,670	16,370				
DTW-1018-SAE1, -SAQ1	2,752	22	46.2	10,930	7,670	16,370				
DTW-1018-TAE1, -TAQ1	2,752	30	49.6	10,980	7,670	16,470				
DTW-1018-PAK1, -PAS1	3,066	11	35.4	11,480	8,300	17,280				
DTW-1018-QAK1, -QAS1	3,066	15	39.3	11,520	8,300	17,280				
DTW-1018-RAK1, -RAS1	3,066	18.5	42.3	11,570	8,300	17,370				
DTW-1018-SAK1, -SAS1	3,066	22	45.7	11,610	8,300	17,370				
DTW-1018-TAK1, -TAS1	3,066	30	49.3	11,660	8,300	17,420				

NOTE

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3.7m x 5.5m Single Cell

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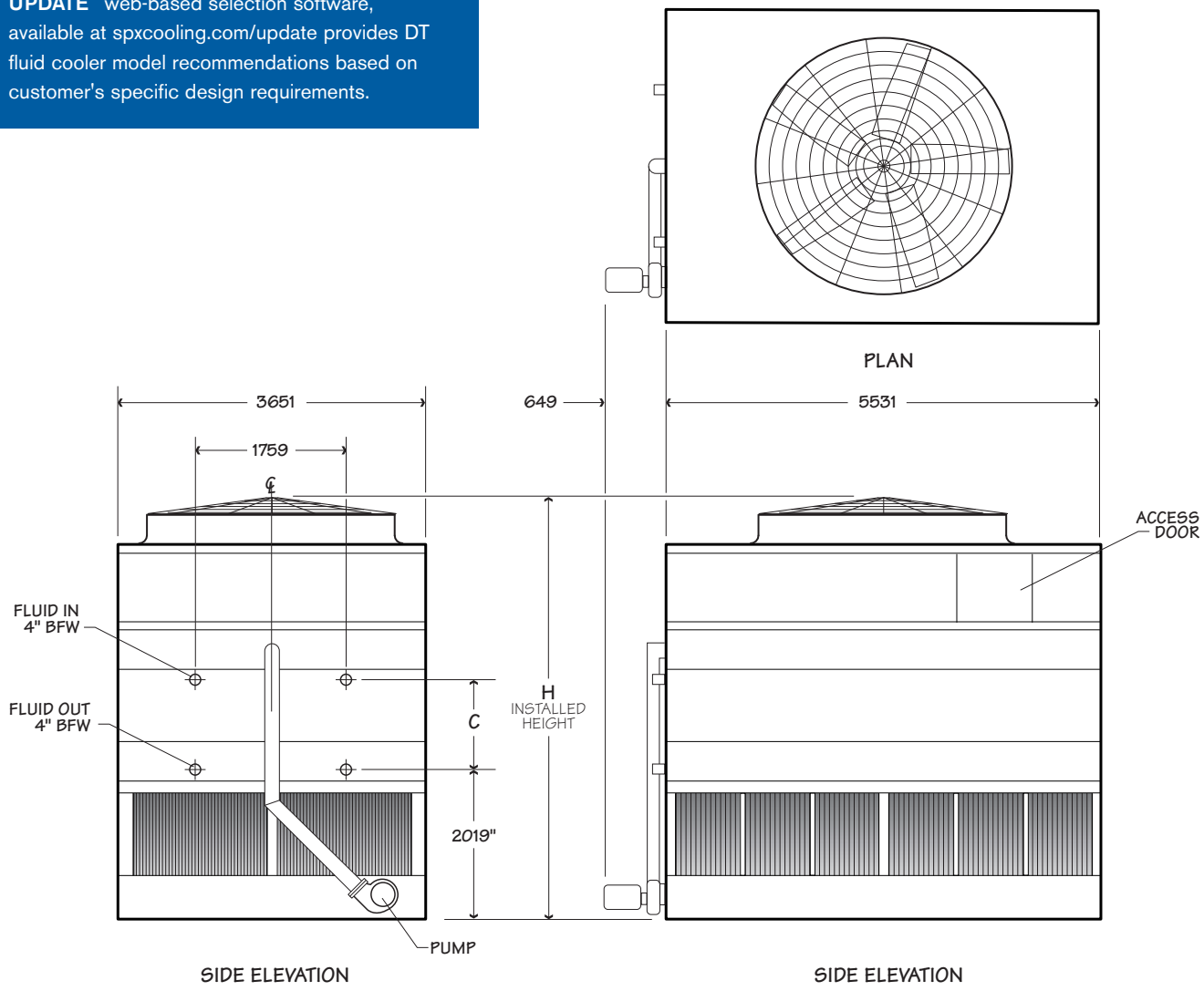

3.7m x 5.5m Single Cell

Model note1	Internal Coil Volume L	Fan Motor kW	Airflow Rate m^3/s	Shipping Weight kg		Design Operating Weight kg	Dimensions mm note 2		Recirculating Flow Rate L/s	Pump Motor kW
				Weight/Cell	Heaviest Section		H	C		
DTW-1218-PAB1, -PAM1	1,931	11	44.7	9,430	7,530	14,520	5032	816	59.3	5.5
DTW-1218-QAB1, -QAM1	1,931	15	49.0	9,430	7,580	14,560				
DTW-1218-RAB1, -RAM1	1,931	18.5	51.8	9,530	7,620	14,610				
DTW-1218-SAB1, -SAM1	1,931	22	54.9	9,530	7,670	14,650				
DTW-1218-PAC1, -PAN1	2,396	11	44.2	10,480	8,570	16,060	5261	1045		
DTW-1218-QAC1, -QAN1	2,396	15	48.6	10,480	8,620	16,060				
DTW-1218-RAC1, -RAN1	2,396	18.5	51.5	10,570	8,660	16,150				
DTW-1218-SAC1, -SAN1	2,396	22	54.6	10,570	8,710	16,150				
DTW-1218-PAD1, -PAP1	2,862	11	43.6	11,520	7,890	17,550	5490	1273		
DTW-1218-QAD1, -QAP1	2,862	15	48.1	11,520	7,890	17,600				
DTW-1218-RAD1, -RAP1	2,862	18.5	51.1	11,610	7,890	17,650				
DTW-1218-SAD1, -SAP1	2,862	22	54.3	11,610	7,890	17,690				
DTW-1218-TAD1, -TAP1	2,862	30	59.2	11,700	7,890	17,740				
DTW-1218-UAD1, -UAP1	2,862	37	62.3	11,700	7,890	17,740				
DTW-1218-QAJ1, -QAR1	3,184	15	47.2	12,250	8,570	18,600				
DTW-1218-RAJ1, -RAR1	3,184	18.5	50.3	12,290	8,570	18,690				
DTW-1218-SAJ1, -SAR1	3,184	22	53.7	12,340	8,570	18,690				
DTW-1218-TAJ1, -TAR1	3,184	30	59.1	12,380	8,570	18,730				
DTW-1218-UAJ1, -UAR1	3,184	37	62.3	12,380	8,570	18,730				
DTW-1218-VAJ1, -VAR1	3,184	45	64.8	12,560	8,570	18,920				
DTW-1218-QAE1, -QAQ1	3,327	15	47.6	12,660	9,030	19,190	5718	1502		
DTW-1218-RAE1, -RAQ1	3,327	18.5	50.7	12,750	9,030	19,230				
DTW-1218-SAE1, -SAQ1	3,327	22	53.9	12,750	9,030	19,280				
DTW-1218-TAE1, -TAQ1	3,327	30	59.0	12,790	9,030	19,320				
DTW-1218-UAE1, -UAQ1	3,327	37	62.1	12,840	9,030	19,320				
DTW-1218-QAK1, -QAS1	3,702	15	46.5	13,470	9,800	20,370				
DTW-1218-RAK1, -RAS1	3,702	18.5	49.6	13,560	9,800	20,410				
DTW-1218-SAK1, -SAS1	3,702	22	53.2	13,560	9,800	20,460				
DTW-1218-TAK1, -TAS1	3,702	30	58.6	13,610	9,800	20,500				
DTW-1218-UAK1, -UAS1	3,702	37	62.0	13,610	9,800	20,500				
DTW-1218-VAK1, -VAS1	3,702	45	64.5	13,790	9,800	20,680				

NOTE

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2.6m x 5.5m Two Cell

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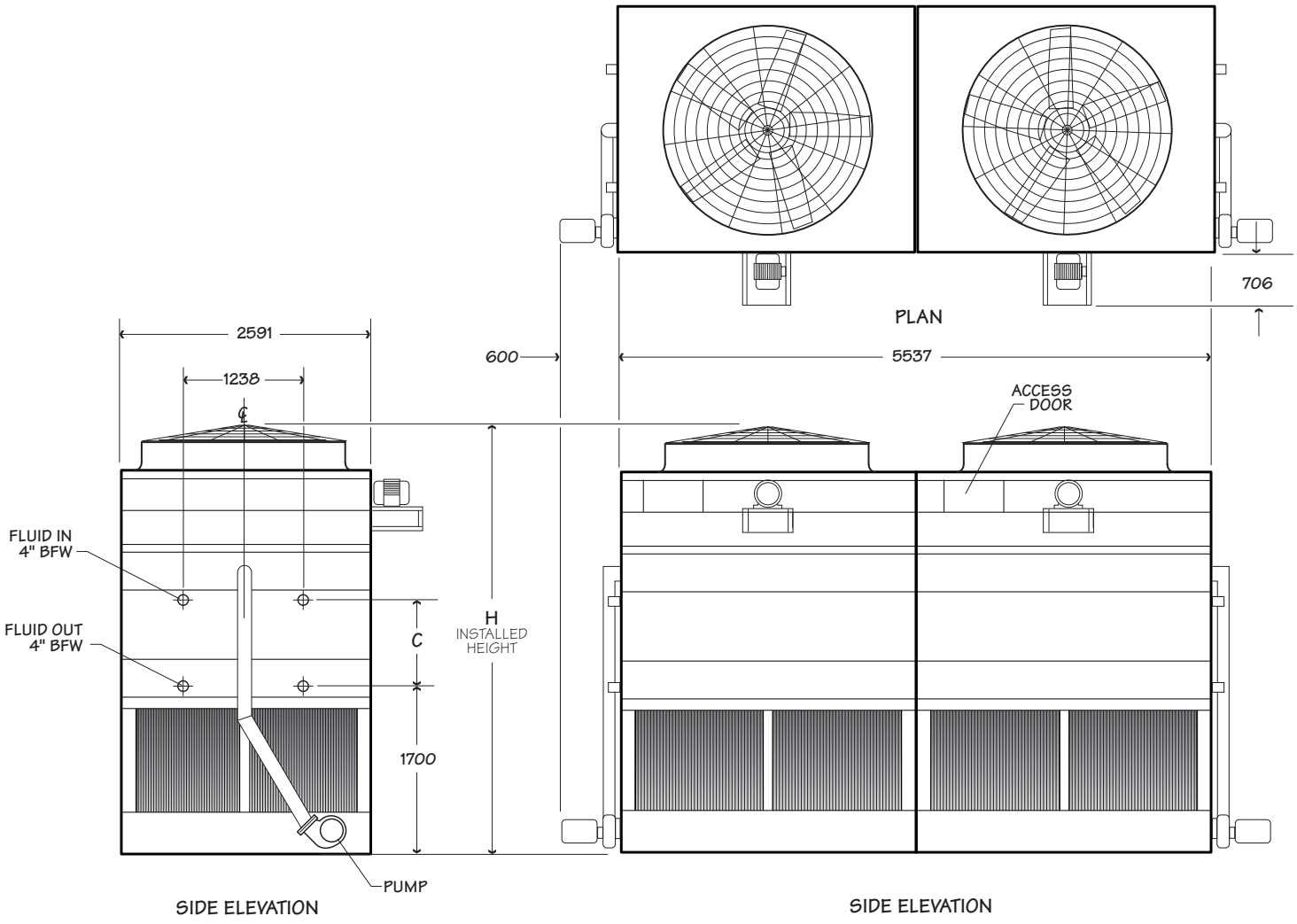

2.6m x 5.5m Two Cell

Model note1	Internal Coil Volume L	Fan Motor kW	Airflow Rate m^3/s	Shipping Weight kg		Design Operating Weight kg	Dimensions mm note 2		Recirculating Flow Rate L/s	Pump Motor kW
				Weight/Cell	Heaviest Section		H	C		
DTW-8509-MAB2, -MAM2	1,363	2 x 5.5	35.0	3,950	3,220	11,430	4077	816	44.8	2 x 1.5
DTW-8509-NAB2, -NAM2	1,363	2 x 7.5	37.8	3,950	3,220	11,430				
DTW-8509-PAB2, -PAM2	1,363	2 x 11	42.0	3,990	3,270	11,520				
DTW-8509-QAB2, -QAM2	1,363	2 x 15	43.9	3,990	3,270	11,610				
DTW-8509-MAC2, -MAN2	1,681	2 x 5.5	34.7	4,350	3,630	12,610	4305"	1045		
DTW-8509-NAC2, -NAN2	1,681	2 x 7.5	37.5	4,350	3,630	12,610				
DTW-8509-PAC2, -PAN2	1,681	2 x 11	41.9	4,400	3,670	12,700				
DTW-8509-QAC2, -QAN2	1,681	2 x 15	43.7	4,400	3,670	12,700				
DTW-8509-MAD2, -MAP2	1,991	2 x 5.5	34.4	4,720	3,180	13,700	4534	1273		
DTW-8509-NAD2, -NAP2	1,991	2 x 7.5	37.3	4,760	3,180	13,700				
DTW-8509-PAD2, -PAP2	1,991	2 x 11	41.7	4,810	3,220	13,790				
DTW-8509-QAD2, -QAP2	1,991	2 x 15	43.6	4,810	3,270	13,880				
DTW-8509-MAJ2, -MAR2	2,203	2 x 5.5	33.5	5,030	3,450	14,520				
DTW-8509-NAJ2, -NAR2	2,203	2 x 7.5	36.6	5,030	3,490	14,520				
DTW-8509-PAJ2, -PAR2	2,203	2 x 11	41.5	5,080	3,540	14,610				
DTW-8509-QAJ2, -QAR2	2,203	2 x 15	43.5	5,130	3,540	14,700				
DTW-8509-MAE2, -MAQ2	2,309	2 x 5.5	34.0	5,170	3,580	14,880	4763	1502		
DTW-8509-NAE2, -NAQ2	2,309	2 x 7.5	37.0	5,170	3,630	14,880				
DTW-8509-PAE2, -PAQ2	2,309	2 x 11	41.5	5,220	3,670	15,060				
DTW-8509-QAE2, -QAQ2	2,309	2 x 15	43.4	5,260	3,670	15,060				
DTW-8509-MAK2, -MAS2	2,551	2 x 5.5	32.9	5,440	3,900	15,690				
DTW-8509-NAK2, -NAS2	2,551	2 x 7.5	36.1	5,440	3,900	15,690				
DTW-8509-PAK2, -PAS2	2,551	2 x 11	41.2	5,530	3,950	15,790				
DTW-8509-QAK2, -QAS2	2,551	2 x 15	43.3	5,530	3,950	15,880				

NOTE

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2.6m x 7.3m Two Cell

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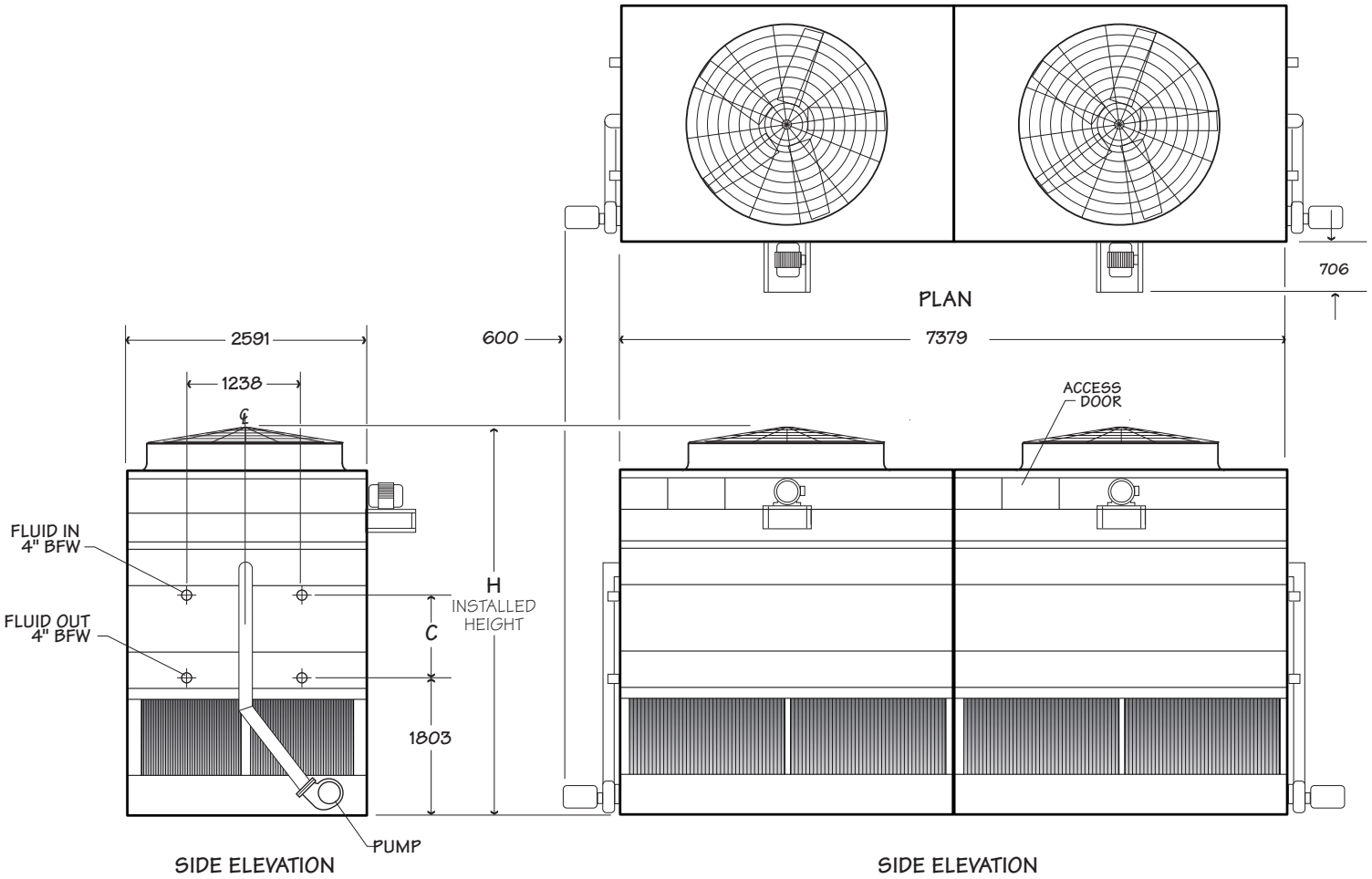

2.6m x 7.3m Two Cell

Model note1	Internal Coil Volume L	Fan Motor kW	Airflow Rate m^3/s	Shipping Weight kg		Design Operating Weight kg	Dimensions mm note 2		Recirculating Flow Rate L/s	Pump Motor kW
				Weight/Cell	Heaviest Section		H	C		
DTW-8512-NAB2, -NAM2	905	2 x 7.5	45.4	4,630	3,760	14,060	4178	816	66.9	2 x 2.2
DTW-8512-PAB2, -PAM2	905	2 x 11	52.0	4,670	3,810	14,150				
DTW-8512-QAB2, -QAM2	905	2 x 15	55.2	4,720	3,860	14,150				
DTW-8512-RAB2, -RAM2	905	2 x 18.5	57.1	4,760	3,900	14,330				
DTW-8512-NAC2, -NAN2	1,120	2 x 7.5	45.0	5,170	4,260	15,510	4407	1045		
DTW-8512-PAC2, -PAN2	1,120	2 x 11	51.8	5,220	4,350	15,600				
DTW-8512-QAC2, -QAN2	1,120	2 x 15	55.0	5,220	4,350	15,600				
DTW-8512-RAC2, -RAN2	1,120	2 x 18.5	56.9	5,310	4,450	15,790				
DTW-8512-NAD2, -NAP2	1,332	2 x 7.5	44.6	5,670	3,900	16,960	4636	1273		
DTW-8512-PAD2, -PAP2	1,332	2 x 11	51.5	5,720	3,950	17,060				
DTW-8512-QAD2, -QAP2	1,332	2 x 15	54.7	5,720	3,990	17,150				
DTW-8512-RAD2, -RAP2	1,332	2 x 18.5	56.7	5,810	4,040	17,240				
DTW-8512-SAD2, -SAP2	1,332	2 x 22	59.0	5,810	4,080	17,330				
DTW-8512-NAJ2, -NAR2	1,476	2 x 7.5	43.3	5,990	4,220	17,870				
DTW-8512-PAJ2, -PAR2	1,476	2 x 11	50.8	6,030	4,260	17,960				
DTW-8512-QAJ2, -QAR2	1,476	2 x 15	54.3	6,030	4,260	18,050				
DTW-8512-RAJ2, -RAR2	1,476	2 x 18.5	56.5	6,120	4,350	18,140				
DTW-8512-SAJ2, -SAR2	1,476	2 x 22	59.0	6,120	4,400	18,230				
DTW-8512-NAE2, -NAQ2	1,548	2 x 7.5	44.1	6,210	4,450	18,510	4864	1502		
DTW-8512-PAE2, -PAQ2	1,548	2 x 11	51.3	6,260	4,490	18,600				
DTW-8512-QAE2, -QAQ2	1,548	2 x 15	54.5	6,310	4,540	18,600				
DTW-8512-RAE2, -RAQ2	1,548	2 x 18.5	56.5	6,350	4,580	18,780				
DTW-8512-SAE2, -SAQ2	1,548	2 x 22	58.9	6,400	4,630	18,780				
DTW-8512-NAK2, -NAS2	1,711	2 x 7.5	42.5	6,580	4,810	19,500				
DTW-8512-PAK2, -PAS2	1,711	2 x 11	50.3	6,620	4,850	19,690				
DTW-8512-QAK2, -QAS2	1,711	2 x 15	53.9	6,670	4,900	19,690				
DTW-8512-RAK2, -RAS2	1,711	2 x 18.5	56.1	6,710	4,940	19,870				
DTW-8512-SAK2, -SAS2	1,711	2 x 22	58.7	6,760	4,990	19,870				

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3.0m x 7.3m Two Cell

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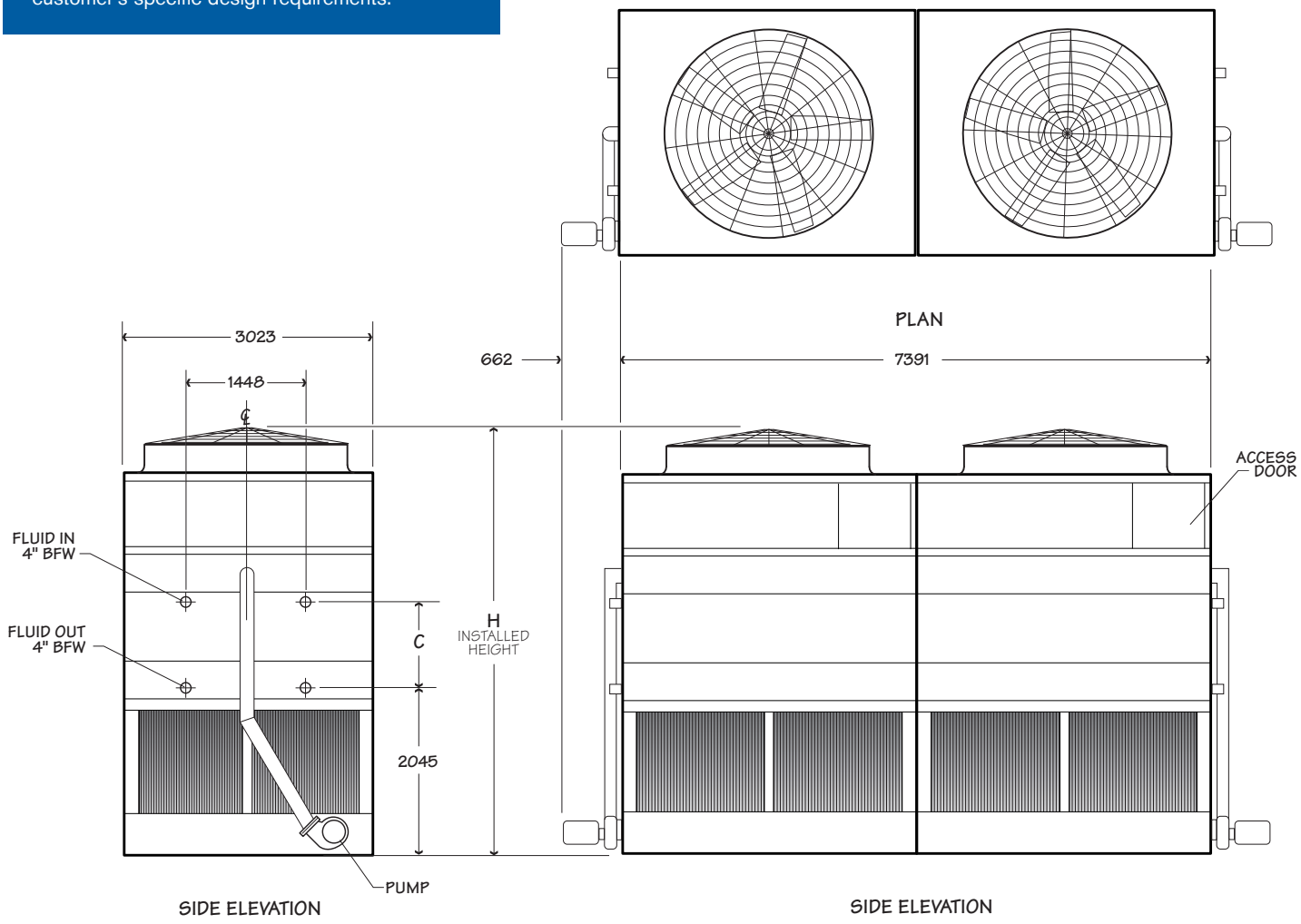

3.0m x 7.3m Two Cell

Model note1	Internal Coil Volume L	Fan Motor kW	Airflow Rate m^3/s	Shipping Weight kg		Design Operating Weight kg	Dimensions mm note 2		Recirculating Flow Rate L/s	Pump Motor kW
				Weight/Cell	Heaviest Section		H	C		
DTW-1012-NAB2, -NAM2	2,158	2 x 7.5	50.5	5,760	4,720	17,330	4942	816"	75.7	2 x 3.7
DTW-1012-PAB2, -PAM2	2,158	2 x 11	55.5	5,810	4,760	17,420				
DTW-1012-QAB2, -QAM2	2,158	2 x 15	60.0	5,850	4,760	17,420				
DTW-1012-RAB2, -RAM2	2,158	2 x 18.5	63.1	5,900	4,850	17,600				
DTW-1012-NAC2, -NAN2	2,672	2 x 7.5	49.8	6,400	5,310	19,050	5170	1045		
DTW-1012-PAC2, -PAN2	2,672	2 x 11	55.1	6,440	5,400	19,140				
DTW-1012-QAC2, -QAN2	2,672	2 x 15	59.7	6,440	5,400	19,140				
DTW-1012-RAC2, -RAN2	2,672	2 x 18.5	62.8	6,530	5,440	19,320				
DTW-1012-NAD2, -NAP2	3,180	2 x 7.5	49.2	6,990	4,720	20,770	5399	1273		
DTW-1012-PAD2, -PAP2	3,180	2 x 11	54.5	7,030	4,720	20,870				
DTW-1012-QAD2, -QAP2	3,180	2 x 15	59.3	7,080	4,720	20,870				
DTW-1012-RAD2, -RAP2	3,180	2 x 18.5	62.5	7,120	4,720	21,050				
DTW-1012-SAD2, -SAP2	3,180	2 x 22	66.9	7,170	4,720	21,050				
DTW-1012-NAJ2, -NAR2	3,536	2 x 7.5	47.6	7,390	5,130	21,860				
DTW-1012-PAJ2, -PAR2	3,536	2 x 11	53.2	7,440	5,130	22,040				
DTW-1012-QAJ2, -QAR2	3,536	2 x 15	58.4	7,440	5,130	22,040				
DTW-1012-RAJ2, -RAR2	3,536	2 x 18.5	61.9	7,530	5,130	22,140				
DTW-1012-SAJ2, -SAR2	3,536	2 x 22	66.8	7,530	5,130	22,230				
DTW-1012-PAE2, -PAQ2	3,695	2 x 11	54.0	7,710	5,400	22,680	5628	1502		
DTW-1012-QAE2, -QAQ2	3,695	2 x 15	58.9	7,710	5,400	22,680				
DTW-1012-RAE2, -RAQ2	3,695	2 x 18.5	62.2	7,800	5,400	22,860				
DTW-1012-SAE2, -SAQ2	3,695	2 x 22	66.7	7,800	5,400	22,860				
DTW-1012-PAK2, -PAS2	4,103	2 x 11	52.3	8,160	5,850	24,040				
DTW-1012-QAK2, -QAS2	4,103	2 x 15	57.6	8,160	5,850	24,040				
DTW-1012-RAK2, -RAS2	4,103	2 x 18.5	61.3	8,260	5,850	24,220				
DTW-1012-SAK2, -SAS2	4,103	2 x 22	66.3	8,260	5,850	24,220				

NOTE

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3.7m x 7.3m Two Cell

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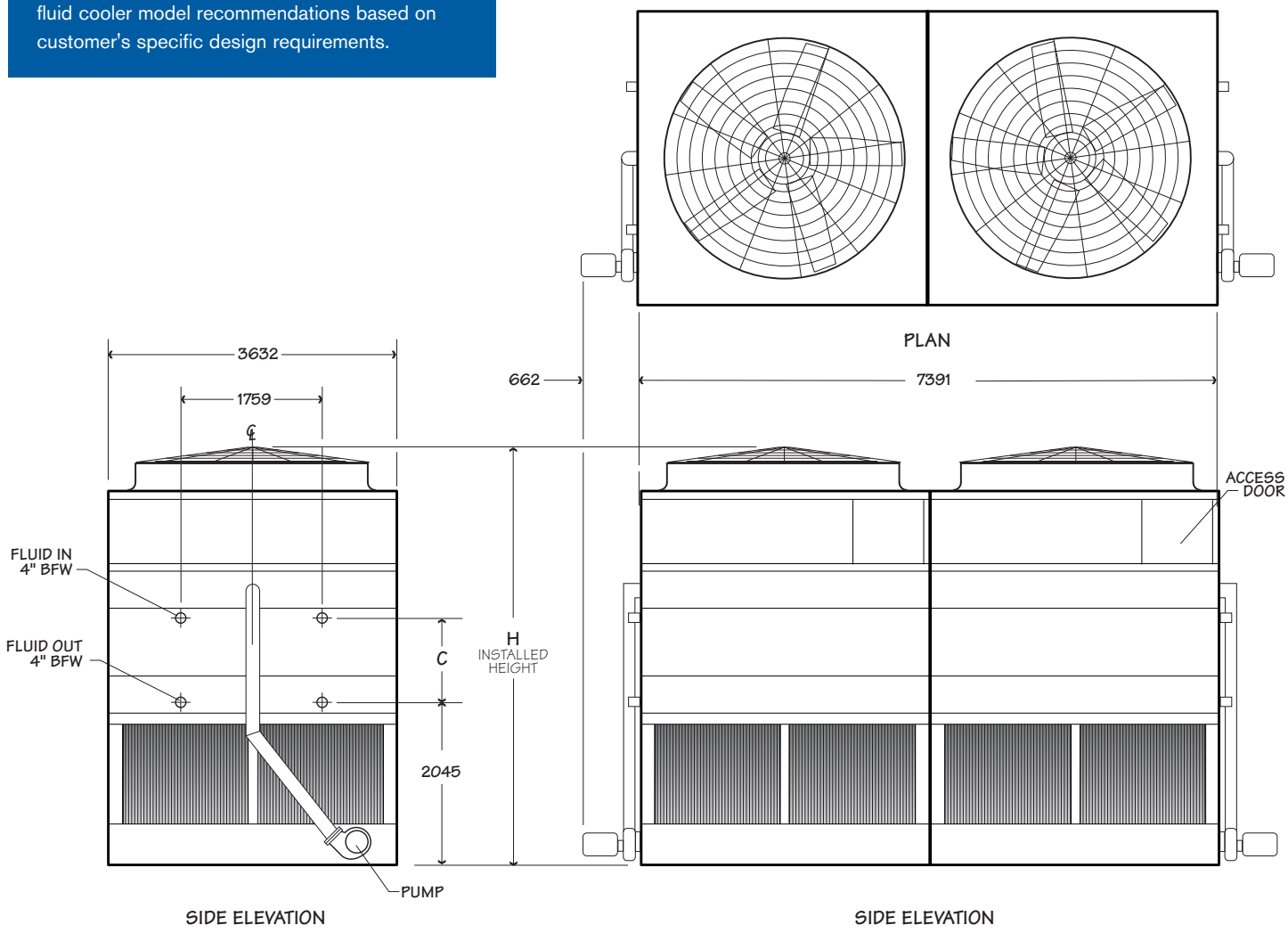

3.7m x 7.3m Two Cell

Model note1	Internal Coil Volume L	Fan Motor kW	Airflow Rate m^3/s	Shipping Weight kg		Design Operating Weight kg	Dimensions mm note 2		Recirculating Flow Rate L/s	Pump Motor kW
				Weight/Cell	Heaviest Section		H	C		
DTW-1212-NAB2, -NAM2	2,612	2 x 7.5	59.8	6,580	5,400	19,960	4942	816	88.3	2 x 3.7s
DTW-1212-PAB2, -PAM2	2,612	2 x 11	66.6	6,620	5,440	20,050				
DTW-1212-QAB2, -QAM2	2,612	2 x 15	72.1	6,620	5,440	20,050				
DTW-1212-RAB2, -RAM2	2,612	2 x 18.5	76.1	6,710	5,530	20,230				
DTW-1212-SAB2, -SAM2	2,612	2 x 22	80.9	6,710	5,530	20,230				
DTW-1212-NAC2, -NAN2	3,225	2 x 7.5	59.0	7,300	6,120	22,040	5170	1045		
DTW-1212-PAC2, -PAN2	3,225	2 x 11	66.0	7,350	6,170	22,140				
DTW-1212-QAC2, -QAN2	3,225	2 x 15	71.7	7,350	6,170	22,140				
DTW-1212-RAC2, -RAN2	3,225	2 x 18.5	75.7	7,440	6,260	22,320				
DTW-1212-SAC2, -SAN2	3,225	2 x 22	80.6	7,440	6,260	22,320				
DTW-1212-NAD2, -NAP2	3,846	2 x 7.5	58.2	8,030	5,530	24,040	5399	1273		
DTW-1212-PAD2, -PAP2	3,846	2 x 11	65.3	8,070	5,530	24,220				
DTW-1212-QAD2, -QAP2	3,846	2 x 15	71.1	8,070	5,530	24,220				
DTW-1212-RAD2, -RAP2	3,846	2 x 18.5	75.3	8,160	5,530	24,400				
DTW-1212-SAD2, -SAP2	3,846	2 x 22	80.2	8,160	5,530	24,400				
DTW-1212-PAJ2, -PAR2	4,270	2 x 11	63.8	8,530	5,990	25,580				
DTW-1212-QAJ2, -QAR2	4,270	2 x 15	70.1	8,570	5,990	25,580				
DTW-1212-RAJ2, -RAR2	4,270	2 x 18.5	74.6	8,620	5,990	25,760				
DTW-1212-SAJ2, -SAR2	4,270	2 x 22	80.0	8,660	5,990	25,760				
DTW-1212-TAJ2, -TAR2	4,270	2 x 30	85.1	8,710	5,990	25,860				
DTW-1212-PAE2, -PAQ2	4,459	2 x 11	64.6	8,850	6,310	26,310	5704	1502		
DTW-1212-QAE2, -QAQ2	4,459	2 x 15	70.6	8,850	6,310	26,400				
DTW-1212-RAE2, -RAQ2	4,459	2 x 18.5	74.9	8,940	6,310	26,490				
DTW-1212-SAE2, -SAQ2	4,459	2 x 22	79.9	8,940	6,310	26,580				
DTW-1212-PAK2, -PAS2	4,959	2 x 11	62.6	9,390	6,850	27,940				
DTW-1212-QAK2, -QAS2	4,959	2 x 15	69.1	9,390	6,850	27,940				
DTW-1212-RAK2, -RAS2	4,959	2 x 18.5	73.8	9,480	6,850	28,120				
DTW-1212-SAK2, -SAS2	4,959	2 x 22	79.4	9,480	6,850	28,120				
DTW-1212-TAK2, -TAS2	4,959	2 x 30	84.6	9,570	6,850	28,210				

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.
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3.0m x 11.0m Two Cell

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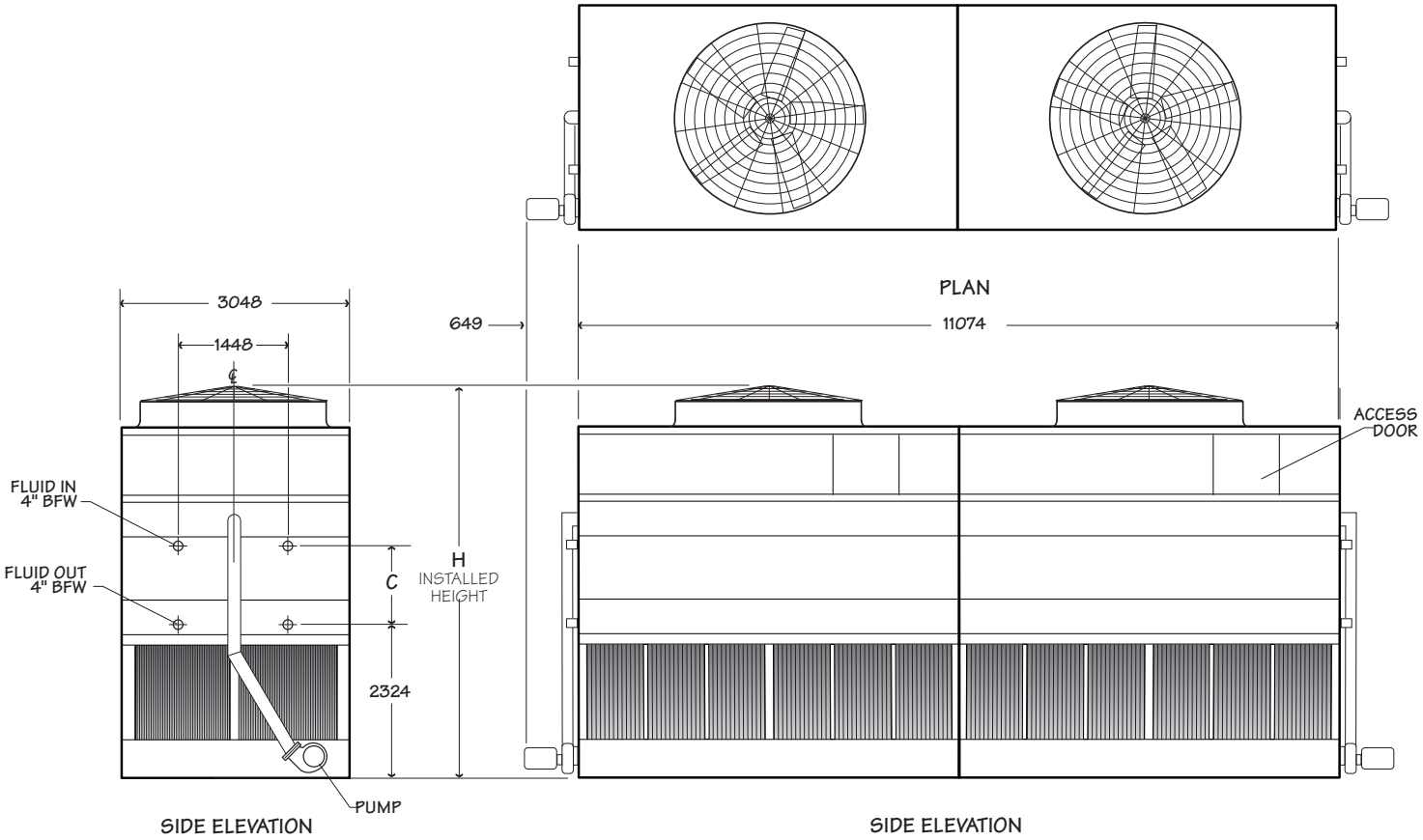

3.0m x 11.0m Two Cell

Model note1	Internal Coil Volume L	Fan Motor kW	Airflow Rate m^3/s	Shipping Weight kg		Design Operating Weight kg	Dimensions mm note 2		Recirculating Flow Rate L/s	Pump Motor kW
				Weight/Cell	Heaviest Section		H	C		
DTW-1018-NAB2, -NAM2	3,195	2 x 7.5	66.7	8,030	6,400	24,680	5221	816	104.7	2 x 5.5
DTW-1018-PAB2, -PAM2	3,195	2 x 11	75.8	8,070	6,440	24,860				
DTW-1018-QAB2, -QAM2	3,195	2 x 15	82.9	8,120	6,490	24,860				
DTW-1018-RAB2, -RAM2	3,195	2 x 18.5	88.2	8,160	6,530	25,040				
DTW-1018-SAB2, -SAM2	3,195	2 x 22	93.9	8,210	6,580	25,040				
DTW-1018-NAC2, -NAN2	3,967	2 x 7.5	65.7	8,940	7,300	27,310	5450	1045		
DTW-1018-PAC2, -PAN2	3,967	2 x 11	74.9	8,980	7,350	27,400				
DTW-1018-QAC2, -QAN2	3,967	2 x 15	82.2	8,980	7,350	27,400				
DTW-1018-RAC2, -RAN2	3,967	2 x 18.5	87.6	9,070	7,440	27,580				
DTW-1018-SAC2, -SAN2	3,967	2 x 22	93.4	9,070	7,440	27,580				
DTW-1018-NAD2, -NAP2	4,739	2 x 7.5	64.7	9,800	6,710	29,850	5678	1273		
DTW-1018-PAD2, -PAP2	4,739	2 x 11	74.0	9,890	6,710	29,940				
DTW-1018-QAD2, -QAP2	4,739	2 x 15	81.5	9,890	6,710	29,940				
DTW-1018-RAD2, -RAP2	4,739	2 x 18.5	87.0	9,980	6,710	30,120				
DTW-1018-SAD2, -SAP2	4,739	2 x 22	92.9	9,980	6,710	30,120				
DTW-1018-TAD2, -TAP2	4,739	2 x 30	99.6	10,020	6,710	30,210				
DTW-1018-PAJ2, -PAR2	5,269	2 x 11	72.2	10,430	7,300	31,570				
DTW-1018-QAJ2, -QAR2	5,269	2 x 15	79.9	10,480	7,300	31,660				
DTW-1018-RAJ2, -RAR2	5,269	2 x 18.5	85.7	10,520	7,300	31,750				
DTW-1018-SAJ2, -SAR2	5,269	2 x 22	92.2	10,570	7,300	31,840				
DTW-1018-TAJ2, -TAR2	5,269	2 x 30	99.4	10,610	7,300	31,930				
DTW-1018-PAE2, -PAQ2	5,504	2 x 11	73.1	10,800	7,670	32,570	5907	1502		
DTW-1018-QAE2, -QAQ2	5,504	2 x 15	80.7	10,840	7,670	32,570				
DTW-1018-RAE2, -RAQ2	5,504	2 x 18.5	86.3	10,890	7,670	32,750				
DTW-1018-SAE2, -SAQ2	5,504	2 x 22	92.4	10,930	7,670	32,750				
DTW-1018-TAE2, -TAQ2	5,504	2 x 30	99.2	10,980	7,670	32,930				
DTW-1018-PAK2, -PAS2	6,132	2 x 11	70.8	11,480	8,300	34,560				
DTW-1018-QAK2, -QAS2	6,132	2 x 15	78.7	11,520	8,300	34,560				
DTW-1018-RAK2, -RAS2	6,132	2 x 18.5	84.7	11,570	8,300	34,750				
DTW-1018-SAK2, -SAS2	6,132	2 x 22	91.3	11,610	8,300	34,750				
DTW-1018-TAK2, -TAS2	6,132	2 x 30	98.7	11,660	8,300	34,840				

NOTE

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3.7m x 11.0m Two Cell

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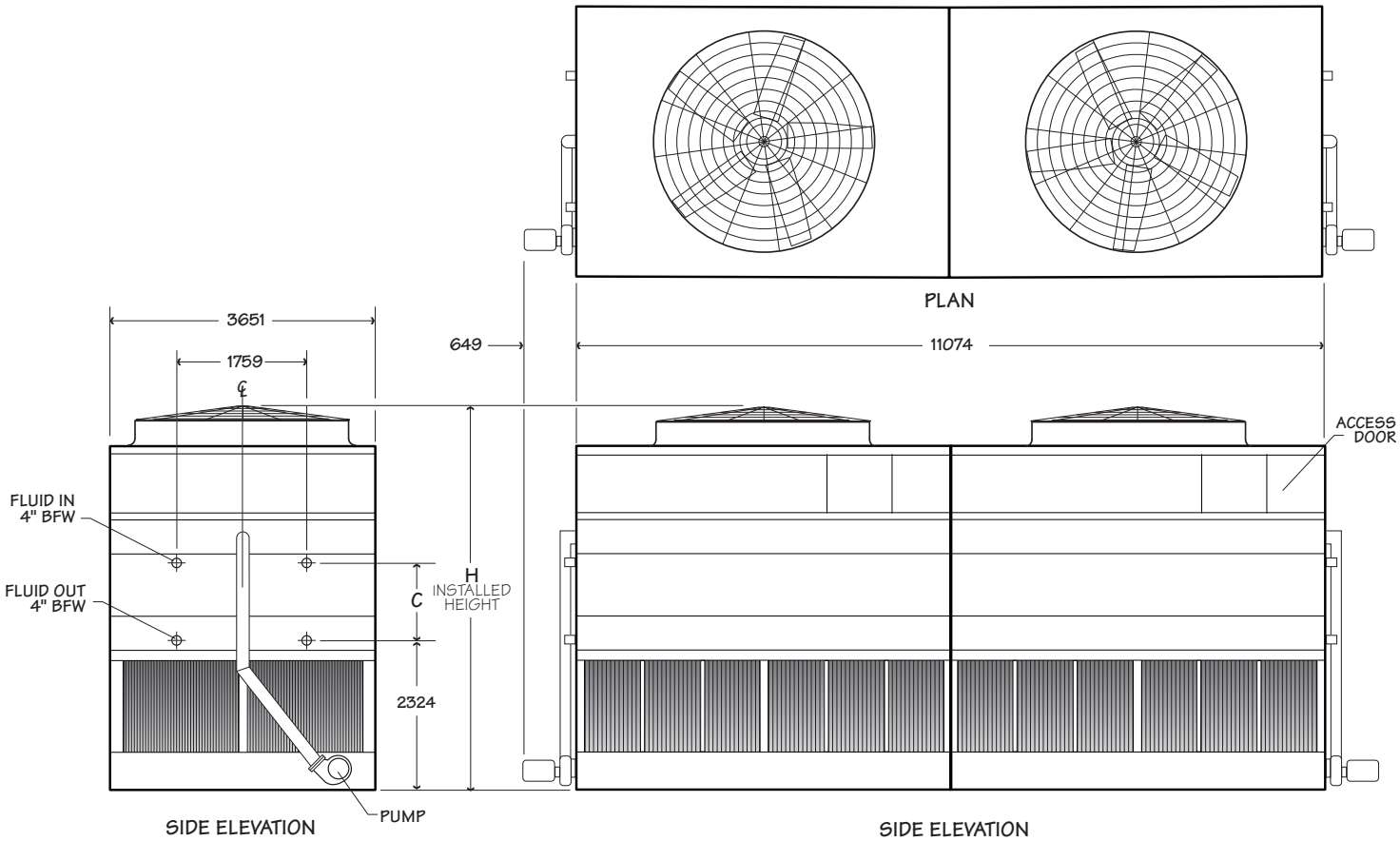

3.7m x 11.0m Two Cell

Model note1	Internal Coil Volume L	Fan Motor kW	Airflow Rate m^3/s	Shipping Weight kg		Design Operating Weight kg	Dimensions mm note 2		Recirculating Flow Rate L/s	Pump Motor kW
				Weight/Cell	Heaviest Section		H	C		
DTW-1218-PAB2, -PAM2	3,861	2 x 11	89.4	9,430	7,530	29,030	5388	816	118.6	2 x 5.5
DTW-1218-QAB2, -QAM2	3,861	2 x 15	98.0	9,430	7,580	29,120				
DTW-1218-RAB2, -RAM2	3,861	2 x 18.5	103.7	9,530	7,620	29,210				
DTW-1218-SAB2, -SAM2	3,861	2 x 22	109.9	9,530	7,670	29,300				
DTW-1218-PAC2, -PAN2	4,792	2 x 11	88.3	10,480	8,570	32,110	5566	1045		
DTW-1218-QAC2, -QAN2	4,792	2 x 15	97.1	10,480	8,620	32,110				
DTW-1218-RAC2, -RAN2	4,792	2 x 18.5	102.9	10,570	8,660	32,300				
DTW-1218-SAC2, -SAN2	4,792	2 x 22	109.2	10,570	8,710	32,300				
DTW-1218-PAD2, -PAP2	5,724	2 x 11	87.2	11,520	7,890	35,110	5794	1273		
DTW-1218-QAD2, -QAP2	5,724	2 x 15	96.2	11,520	7,890	35,200				
DTW-1218-RAD2, -RAP2	5,724	2 x 18.5	102.1	11,610	7,890	35,290				
DTW-1218-SAD2, -SAP2	5,724	2 x 22	108.6	11,610	7,890	35,380				
DTW-1218-TAD2, -TAP2	5,724	2 x 30	118.5	11,700	7,890	35,470				
DTW-1218-UAD2, -UAP2	5,724	2 x 50	124.6	11,700	7,890	35,470				
DTW-1218-QAJ2, -QAR2	6,367	2 x 20	94.4	12,250	8,570	37,200				
DTW-1218-RAJ2, -RAR2	6,367	2 x 25	100.6	12,290	8,570	37,380				
DTW-1218-SAJ2, -SAR2	6,367	2 x 30	107.4	12,340	8,570	37,380				
DTW-1218-TAJ2, -TAR2	6,367	2 x 40	118.1	12,380	8,570	37,470				
DTW-1218-UAJ2, -UAR2	6,367	2 x 37	124.7	12,380	8,570	37,470				
DTW-1218-VAJ2, -VAR2	6,367	2 x 45	129.6	12,560	8,570	37,830				
DTW-1218-QAE2, -QAQ2	6,655	2 x 15	95.3	12,660	9,030	38,370	6023	1502		
DTW-1218-RAE2, -RAQ2	6,655	2 x 18.5	101.3	12,750	9,030	38,470				
DTW-1218-SAE2, -SAQ2	6,655	2 x 22	107.9	12,750	9,030	38,560				
DTW-1218-TAE2, -TAQ2	6,655	2 x 30	118.0	12,790	9,030	38,650				
DTW-1218-UAE2, -UAQ2	6,655	2 x 37	124.1	12,840	9,030	38,650				
DTW-1218-QAK2, -QAS2	7,404	2 x 15	92.9	13,470	9,800	40,730				
DTW-1218-RAK2, -RAS2	7,404	2 x 18.5	99.2	13,560	9,800	40,820				
DTW-1218-SAK2, -SAS2	7,404	2 x 22	106.3	13,560	9,800	40,910				
DTW-1218-TAK2, -TAS2	7,404	2 x 30	117.3	13,610	9,800	41,010				
DTW-1218-UAK2, -UAS2	7,404	2 x 370	124.0	13,610	9,800	41,010				
DTW-1218-VAK2, -VAS2	7,404	2 x 45	129.0	13,790	9,800	41,370				

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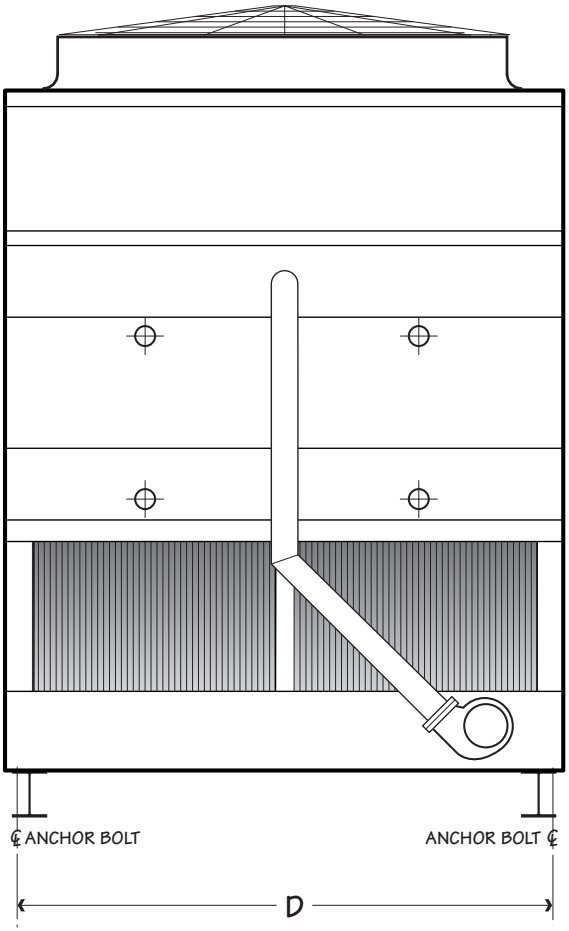


Model	D	Maximum Deflection
DTW-8509	2537	13
DTW-8512	2537	13
DTW-1012	2950	13
DTW-1018	2950	13
DTW-1212	3566	13
DTW-1218	3566	13

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.

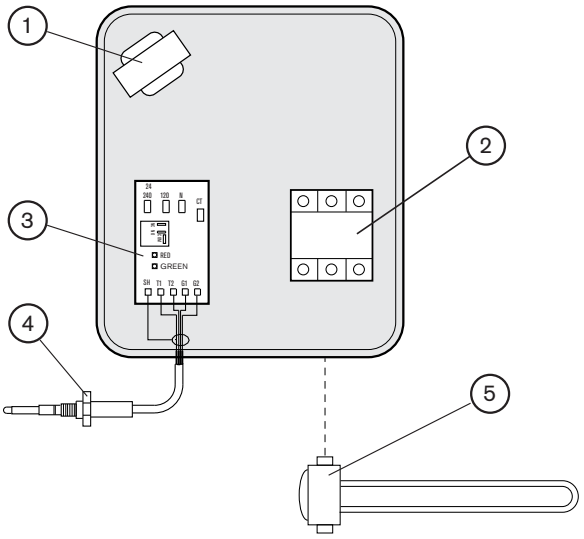
The purpose of a basin heater is to prevent recirculating water from freezing in the collection basin during periods of shutdown or standby operation. Heater systems are sized according to tower model and ambient temperature to give maximum protection against freezing in the collection basin. They are 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.
- IP56 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	-18°C Ambient	-29°C Ambient	-40°C 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 0°C, 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 _____ kW. 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 Z725 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 IEC 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, 50 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 8mm 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 ___kW TEFC pump motor name plated for 3 phase, 50 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 2586 kPa 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 .43mm 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 125mm 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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