

SUPERPLATE™

INDIRECT-FIRED, SEMI-INSTANTANEOUS COMPACT
BOILER WATER-FIRED WATER HEATER

Basic Package Includes:

- Basic Water to Water Package
- Brazed Plate or Plate and Frame
- Single or Double Wall Construction
- PID Control Panel
- Stable Temperature Output
- Completely Skid Mounted, Compatible with Medium, Normal and Low Temperature Boiler Water.
- ASME Code Tested and Stamped



Features- SUPERPLATE Water Heater

Diversified Heat Transfer has expanded its line of steam fired shell and tube type domestic water heaters. The existing SuperTherm water heaters are now joined by the advanced plate type boiler water fired SuperPlate units. SuperPlate incorporates the proven DHT PID controller coupled with the high efficiency plate and frame or brazed plate heat exchangers. The DHT SuperPlate water heater is designed to satisfy potable water heating needs in commercial and institutional environments. The packaged system utilizes simple, easy to understand, real-time load tracking and responsive controls to maintain accurate hot water temperatures under various load patterns. DHT SuperPlate can be coupled with medium temperature, normal temperature, and low temperature condensing type boiler water to achieve high efficiency within an optimized space. The control system features a durable RTD temperature sensor transmitting a 4-20 MA signal through quality twisted shielded wiring. The signal transmits directly into the DHT designed PID controller which in turn sends a 4-20 MA signal to the electrically activated two way or three way control valve to achieve accurate temperature control over various demand situations.

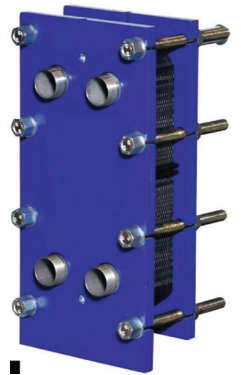


Plate & Frame

Features

PID controller, smooth installation, solitary electrical, domestic hot, cold, recirc water hookup, boiler water inlet and outlet connections coupled with the full range of commercial medium temperature hot water boilers and any of the markets' high efficiency condensing boilers.

The SuperPlate can efficiently produce up to 150 GPM of 140° F domestic hot water. Skid mounted with a state of the art PID control panel, brazed plate, plate and frame heat exchanger, electric two or three way control valve. Non ferrous circulator pump.

No lead pro press connections. Easy removal of heat exchanger via flanged victaulic or union connections allows the complete removal of the heat exchanger without disturbing the water heater piping. Isolation valves, inlet strainers and backflush connections provided for scheduled maintenance.



Brazed Plate

Accessories

- Dual heat exchanger options
- DHT storage tank options
- Pneumatic control valves

Materials of Construction

- Brazed Plate 316SS Copper Braze
- Plate & Frame 304SS/316SS/Titanium

Water Heater Control Panel

DHT controls are engineered to achieve optimal temperature control.

Standard Features

- Microprocessor Based
- Two Line Alpha-Numeric
- 40 Character LCD Display
- 3 Function Keys
- Isolated 24VDC Sensor Power 4/20MA
- 1 Analog Input
- 8 Digital Inputs
- 1 Analog Output
- 4 Relay Outputs 5 AMP.
- Fully User Programmable in English
- 'PopUp' Alarm Screens
- P.I.D. Setpoint Control
- RS485 MODBUS® Data Port
- Compatible with BMS/BAS

Input

- Temperature Set Point
- High Limit Temperature Set Points

Output

- Power
- Normal
- High Temperature Alarm

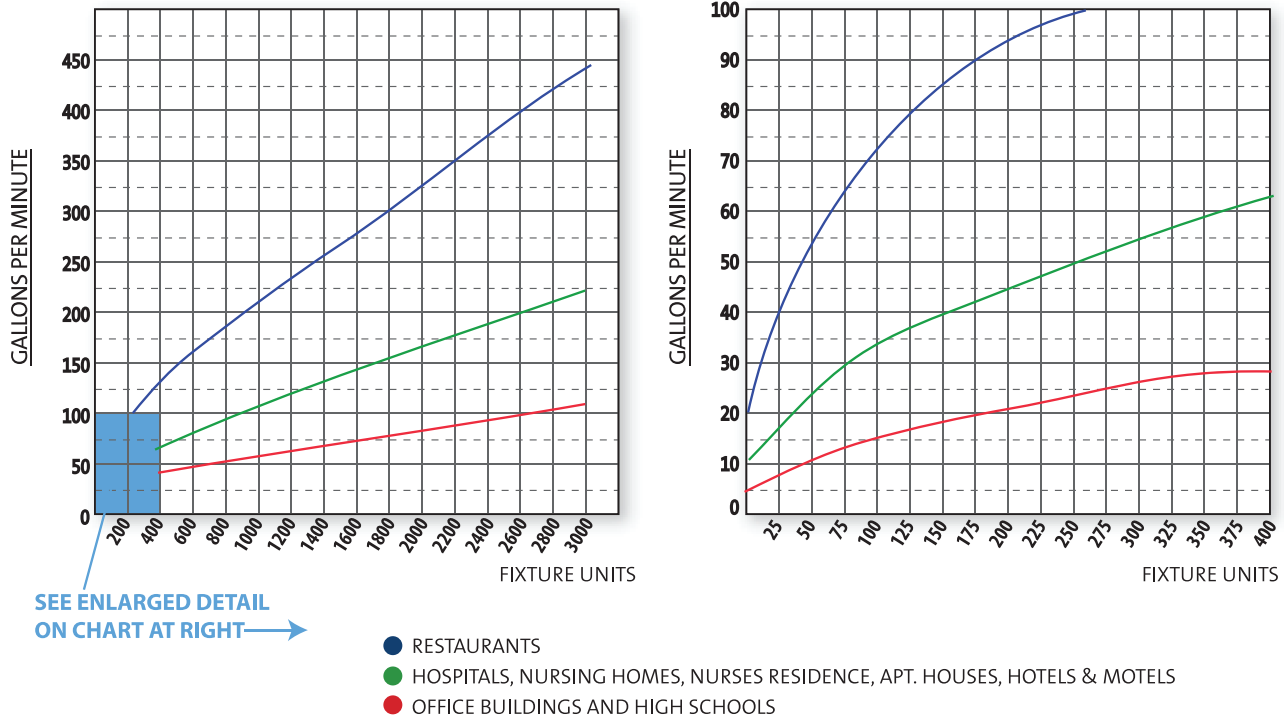


DHT Control Panel

Sizing DHT Semi-Instantaneous Water Heater

To size DHT Semi-Instantaneous Water Heater you must determine the total water flow rate. First you have to determine total fixture units for all fixtures by using hot water demand in fixture units tables, then determine the demand GPM of hot water from the chart below.

HOT WATER FLOW RATE CURVE



HOT WATER DEMAND IN FIXTURE UNITS (140° F WATER)

	Fixture	Apartment House	Club	Gym	Hospital	Hotel	Industrial Plant	Office Building
Basin, Public lavatory	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Basin, Public lavatory	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Bathtubs	1.5			1.5	1.5			
Dishwashers	1.5							
Foot-Basins			1.2	1.2				
Kitchen Sink	0.75	1.5	1.5	3.0	1.5	3.0		2.5
Laundry, StationaryTubs								2.0
Pantry Sink	1.5	2.5		2.5	2.5			2.5
Showers	1.5	1.5	1.5	1.5	1.5	3.5	1.5	1.5
Slop Sink	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.5
Hydrotherapeutic Showers				8.0				
Hubbard Baths				4.0				
Leg Baths				3.0				
Arm Baths				4.0				
Sitz Baths				3.0				
Continuous-Flow Baths				4.0				
Circular-Wash Sinks		2.5	2.0	2.5		4.0		2.5
Semicircular-Wash Sinks		1.5	1.5	1.5		3.0		1.5

Sizing:

Determine the total fixture units for all fixtures by using the above table. Determine the required GPM from the above Hot water flow rate curve. Select the model of the water heater from water heater selection chart according to the calculated GPM and the given steam pressure or boiler water temperature.

Example:

Apartment building has 20 apartments

Bathtubs $1.5 \times 20 = 30$

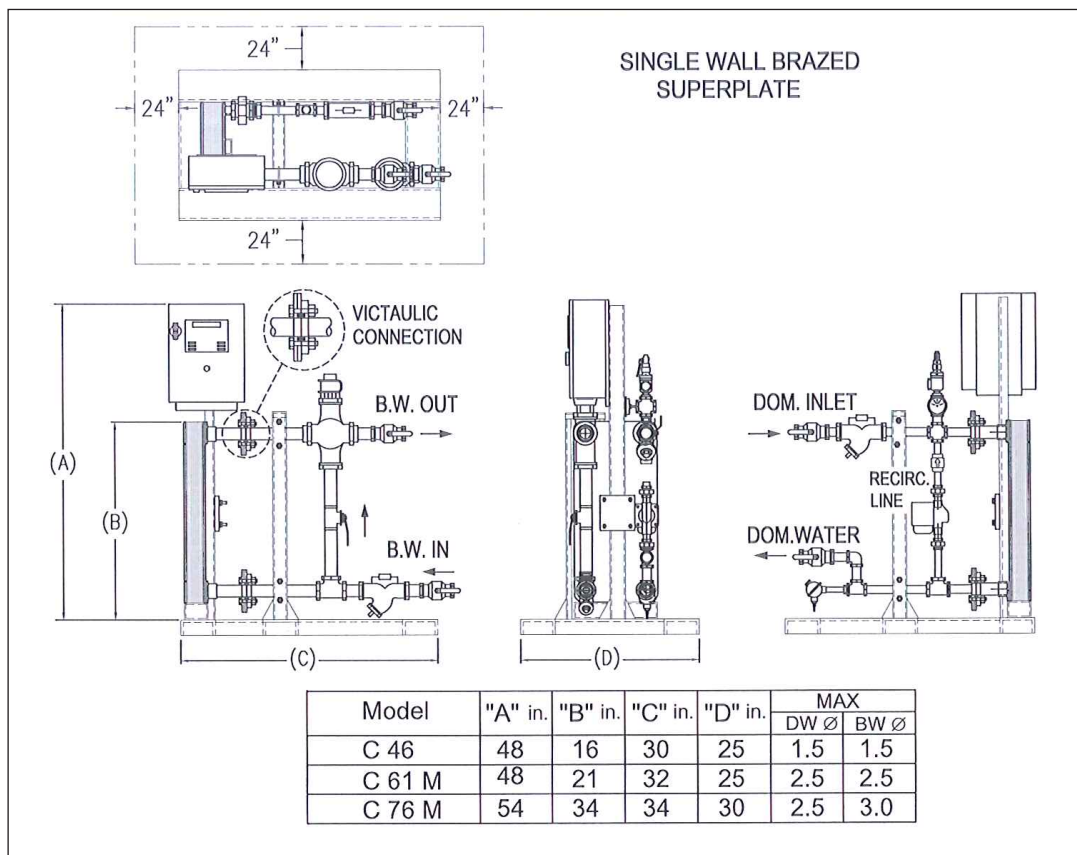
Dishwashers $1.5 \times 20 = 30$

Kitchen Sinks $0.75 \times 20 = 15$

Total 75

Demand from the curve above (Green color): 30 GPM

Single Wall Brazed Plate



Domestic Water Pressure Drop	8 PSIG @ max. rated flow
Ambient Operating Temperature	0 °F-131° F
Electrical Requirements	120/1 /60 Hz 2 Amp 220/1/50 Hz 2 Amp
Standby Amperage Draw	2 Amp
High Limit "Tripped" Amperage Draw	2 Amp
Max. Continuous Water Flow Rate	100 GPM
Max. Boiler Water Pressure & Temperature	150 PSIG @ 220° F
Max. Domestic Water Operating Pressure	150 PSIG
Adjustable Temperature Control	up to 180° F
Adjustable High Limit Control	up to 200° F
Water Connection Inlets/Outlets	1.5" FNPT 2.5" FNPT
Weight (lbs.)	C46: 320 (dry), 340 (installed) C61M: 340 (dry), 370 (installed) C76M: 400 (dry), 440 (installed)

AVAILABLE OPTIONS: Dry contacts for remote "High Limit Tripped Status" indication.

Note: Dimensions and Specifications subject to change without notice.

Single Wall Brazed Plate

Boiler Water Inlet 200°F / 120°F

Domestic Water Temperature Rise at 40°F - 140°F					Domestic Water Temperature Rise at 40°F - 120°F				
DOM.GPM	PD/[PSI]	MODEL#	BWGPM	PD/[PSI]	DOM.GPM	PD/[PSI]	MODEL#	BWGPM	PD/[PSI]
10	[2]	C46	11	[4]	10	[1]	C46	7	[2]
20	[2]	C46	21	[3]	20	[1]	C46	9	[2]
30	[2]	C46	31	[3]	30	[3]	C46	15	[5]
40	[2]	C46	42	[3]	40	[3]	C46	22	[3]
50	[3]	C46	51	[5]	50	[4]	C46	32	[6]
60	[5]	C46	61	[5]	60	[4]	C46	42	[5]
70	[1]	C46	72	[3]	70	[4]	C46	52	[4]
80	[1]	C46	81	[3]	80	[4]	C46	62	[4]
90	[2]	C46	91	[3]	90	[3]	C46	72	[4]
100	[2]	C46	101	[3]	100	[3]	C46	81	[3]

Boiler Water Inlet 180°F / 100°F

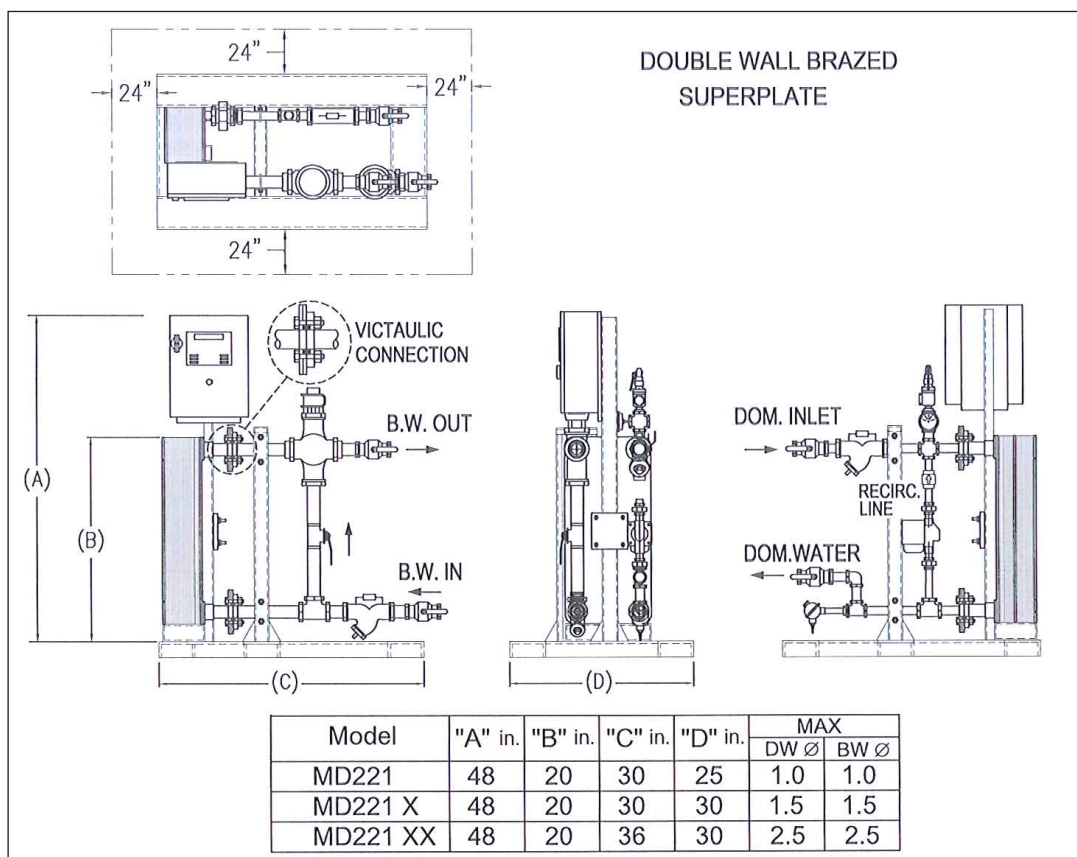
Domestic Water Temperature Rise at 40°F - 140°F					Domestic Water Temperature Rise at 40°F - 120°F				
DOM.GPM	PD/[PSI]	MODEL#	BWGPM	PD/[PSI]	DOM.GPM	PD/[PSI]	MODEL#	BWGPM	PD/[PSI]
10	[1]	C46	12	[1]	10	[.5]	C46	10	[.5]
20	[1]	C46	25	[1]	20	[1]	C46	20	[1]
30	[1]	C46	37	[1]	30	[1]	C46	30	[1]
40	[1]	C46	50	[1]	40	[1]	C46	4	[2]
50	[1]	C46	63	[1]	50	[2]	C46	50	[2]
60	[1]	C46	75	[2]	60	[2]	C46	60	[2]
70	[2]	C46	88	[2]	70	[2]	C46	70	[2]
80	[2]	C46	101	[3]	80	[2]	C46	80	[2]
90	[2]	C61M	113	[3]	90	[3]	C46	91	[3]
100	[2]	C61M	126	[4]	100	[4]	C46	100	[4]

Boiler Water Inlet 150°F / 90°F

Domestic Water Temperature Rise at 40°F - 140°F					Domestic Water Temperature Rise at 40°F - 120°F				
DOM.GPM	PD/[PSI]	MODEL#	BWGPM	PD/[PSI]	DOM.GPM	PD/[PSI]	MODEL#	BWGPM	PD/[PSI]
10	[1]	C46	25	[1]	10	[1]	C46	13	[1]
20	[1]	C46	50	[1]	20	[1]	C46	26	[1]
30	[1]	C46	75	[1]	30	[1]	C46	40	[1]
40	[1]	C76M	57	[1]	40	[1]	C46	53	[1]
50	[1]	C76M	71	[1]	50	[1]	C46	67	[2]
60	[1]	C76M	86	[1]	60	[1]	C46	80	[2]
70	[1]	C76M	100	[1]	70	[1]	C46	94	[3]
80	[1]	C76M	114	[1]	80	[1]	C61M	97	[1]
90	[1]	C76M	129	[1]	90	[1]	C61M	103	[1]
100	[1]	C76M	143	[1]	100	[1]	C61M	115	[2]

***NOTE:** Boiler water outlet temperatures can be adjusted, if required. Pressure drop values are for the heat exchanger only. System pressure drops will be based on control valve design.

Double Wall Brazed Plate



Domestic Water Pressure Drop	8 PSIG @ max. rated flow
Ambient Operating Temperature	0 °F-131° F
Electrical Requirements	120/1 /60 Hz 2 Amp 220/1/50 Hz 2 Amp
Standby Amperage Draw	2 Amp
High Limit "Tripped" Amperage Draw	2 Amp
Max. Continuous Water Flow Rate	100 GPM
Max. Boiler Water Pressure & Temperature	150 PSIG @ 220° F
Max. Domestic Water Operating Pressure	150 PSIG
Adjustable Temperature Control	up to 180° F
Adjustable High Limit Control	up to 200° F
Water Connection Inlets/Outlets	1.5" FNPT 2.5" FNPT
Weight (lbs.)	MD221: 320 (dry), 340 (installed) MD221X: 350 (dry), 370 (installed) MD221XX: 420 (dry), 440 (installed)

AVAILABLE OPTIONS: Dry contacts for remote "High Limit Tripped Status" indication.

Note: Dimensions and Specifications subject to change without notice.

Double Wall Brazed Plate

Boiler Water Inlet 200°F / 120°F

Domestic Water Temperature Rise at 40°F - 140°F					Domestic Water Temperature Rise at 40°F - 120°F				
DOM.GPM	PD/[PSI]	MODEL#	BWGPM	PD/[PSI]	DOM.GPM	PD/[PSI]	MODEL#	BWGPM	PD/[PSI]
10	[2]	MD221EX	12	[3]	10	[2]	MD221EX	10	[2]
20	[2]	MD221EX	24	[3]	20	[2]	MD221EX	19	[2]
30	[5]	MD221EX	36	[6]	30	[5]	MD221EX	28	[4]
40	[4]	MD221EX	48	[5]	40	[4]	MD221EX	38	[3]
50	[4]	MD221EX	60	[4]	50	[4]	MD221EX	47	[3]
60	[5]	MD221EX	72	[6]	60	[4]	MD221EX	57	[5]
70	[5]	MD221EX	90	[6]	70	[4]	MD221EX	67	[5]
80	[4]	MD221EX	96	[5]	80	[6]	MD221EX	76	[5]
90	[4]	MD221EX	107	[5]	90	[6]	MD221EX	86	[4]
100	[5]	MD221EX	119	[6]	100	[5]	MD221EX	95	[4]

Boiler Water Inlet 180°F / 100°F

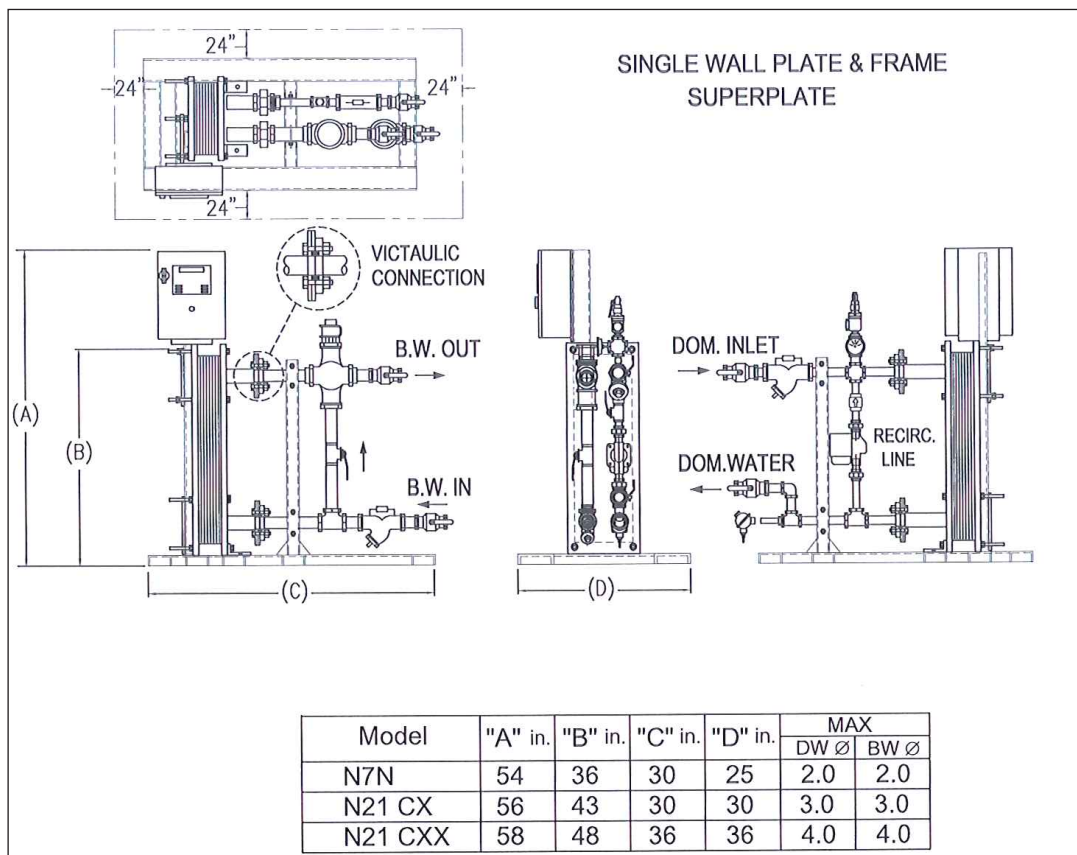
Domestic Water Temperature Rise at 40°F - 140°F					Domestic Water Temperature Rise at 40°F - 120°F				
DOM.GPM	PD/[PSI]	MODEL#	BWGPM	PD/[PSI]	DOM.GPM	PD/[PSI]	MODEL#	BWGPM	PD/[PSI]
10	[2]	MD221EX	12	[3]	10	[2]	MD221EX	10	[.5]
20	[2]	MD221EX	25	[3]	20	[2]	MD221EX	20	[1]
30	[2]	MD221EX	38	[3]	30	[2]	MD221EX	30	[1]
40	[2]	MD221EX	51	[3]	40	[2]	MD221EX	41	[2]
50	[2]	MD221EX	64	[3]	50	[3]	MD221EX	51	[2]
60	[2]	MD221EX	77	[3]	60	[3]	MD221EX	61	[2]
70	[2]	MD221EX	89	[4]	70	[3]	MD221EX	71	[2]
80	[2]	MD221EX	102	[4]	80	[3]	MD221EX	82	[2]
90	[2]	MD221EX	115	[4]	90	[3]	MD221EX	91	[3]
100	[2]	MD221EX	128	[4]	100	[3]	MD221EX	100	[4]

Boiler Water Inlet 150°F / 90°F

Domestic Water Temperature Rise at 40°F - 140°F					Domestic Water Temperature Rise at 40°F - 120°F				
DOM.GPM	PD/[PSI]	MODEL#	BWGPM	PD/[PSI]	DOM.GPM	PD/[PSI]	MODEL#	BWGPM	PD/[PSI]
10	[1]	MD221EX	16	[1]	10	[2]	MD221EX	13	[4]
20	[1]	MD221EX	33	[1]	20	[2]	MD221EX	27	[4]
30	[1]	MD221EX	50	[1]	30	[2]	MD221EX	40	[4]
40	[1]	MD221EX	67	[1]	40	[2]	MD221EX	54	[4]
50	[1]	MD221EX	81	[1]	50	[2]	MD221EX	67	[4]
60	[1]	MD221EX	100	[1]	60	[2]	MD221EX	81	[4]
70	[1]	MD221EX	118	[1]	70	[2]	MD221EX	94	[4]
80	[1]	MD221EX	133	[1]	80	[2]	MD221EX	108	[4]
90		See Double Wall Plate & Frame			90	[2]	MD221EX	122	[4]
100					100	[2]	MD221EX	135	[4]

***NOTE:** Boiler water outlet temperatures can be adjusted, if required. Pressure drop values are for the heat exchanger only. System pressure drops will be based on control valve design.

Single Wall Plate & Frame



Domestic Water Pressure Drop	8 PSIG @ max. rated flow
Ambient Operating Temperature	0 °F-131° F
Electrical Requirements	120/1 /60 Hz 2 Amp 220/1/50 Hz 2 Amp
Standby Amperage Draw	2 Amp
High Limit "Tripped" Amperage Draw	2 Amp
Max. Continuous Water Flow Rate	150 GPM
Max. Boiler Water Pressure & Temperature	150 PSIG @ 220° F
Max. Domestic Water Operating Pressure	150 PSIG
Adjustable Temperature Control	up to 180° F
Adjustable High Limit Control	up to 200° F
Water Connection Inlets/Outlets	2" FNPT 4" FNPT (Flanged)
Weight (lbs.)	N7N: 525 (dry), 630 (installed) N21CX: 700 (dry), 770 (installed) N21CXX: 1000 (dry), 1090 (installed)

AVAILABLE OPTIONS: Dry contacts for remote "High Limit Tripped Status" indication.

Note: Dimensions and Specifications subject to change without notice.

Single Wall Plate & Frame

Boiler Water Inlet 200°F / 120°F

Domestic Water Temperature Rise at 40°F - 140°F					Domestic Water Temperature Rise at 40°F - 120°F				
DOM.GPM	PD/[PSI]	MODEL#	BWGPM	PD/[PSI]	DOM.GPM	PD/[PSI]	MODEL#	BWGPM	PD/[PSI]
50	[3]	N7N	65	[4]	50	[2]	N7N	52	[2]
60	[3]	N7N	78	[4]	60	[2]	N7N	63	[2]
70	[3]	N7N	91	[4]	70	[2]	N7N	73	[2]
80	[3]	N7N	104	[4]	80	[2]	N7N	83	[2]
90	[3]	N7N	117	[4]	90	[2]	N7N	94	[2]
100	[3]	N7N	130	[4]	100	[2]	N7N	104	[2]
110	[3]	N7N	143	[4]	110	[2]	N7N	115	[2]
120	[3]	N7N	155	[4]	120	[3]	N7N	125	[3]
130	[3]	N7N	163	[4]	130	[3]	N7N	135	[3]
140	[3]	N7N	182	[4]	140	[3]	N7N	146	[3]
150	[3]	N7N	195	[4]	150	[3]	N7N	157	[3]

Boiler Water Inlet 180°F / 100°F

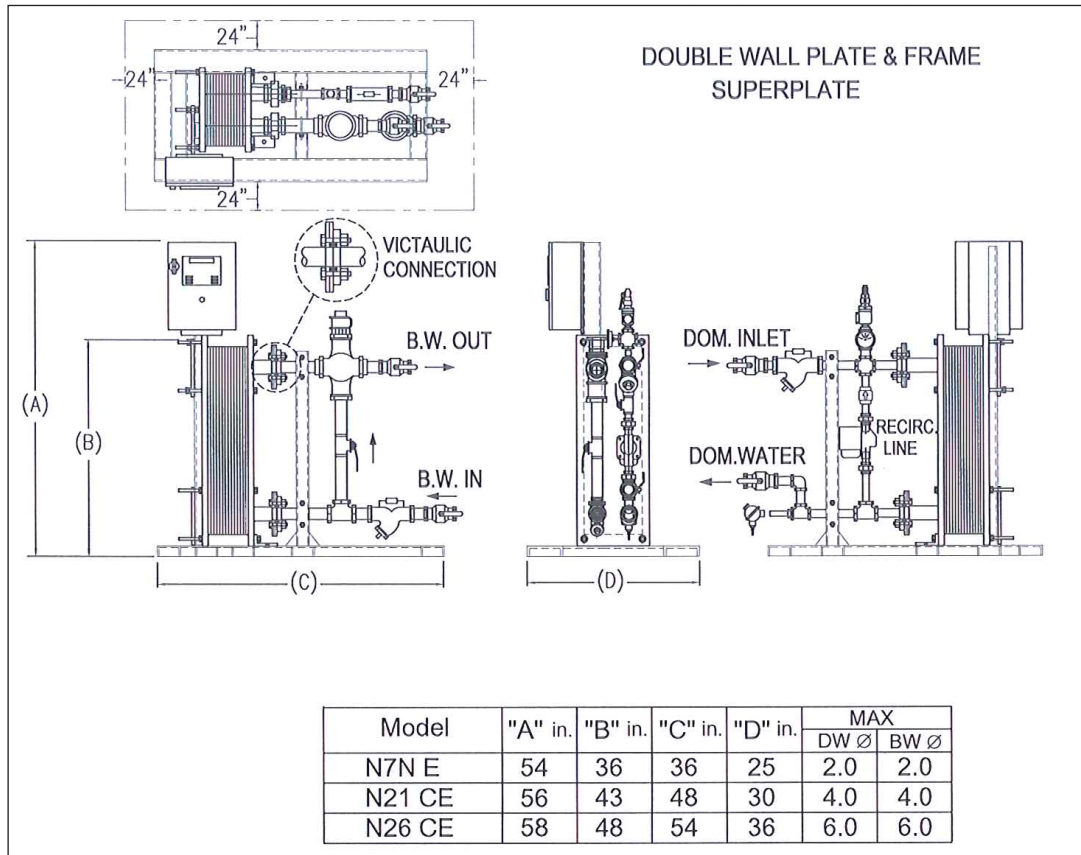
Domestic Water Temperature Rise at 40°F - 140°F					Domestic Water Temperature Rise at 40°F - 120°F				
DOM.GPM	PD/[PSI]	MODEL#	BWGPM	PD/[PSI]	DOM.GPM	PD/[PSI]	MODEL#	BWGPM	PD/[PSI]
50	[2]	N7N	65	[4]	50	[2]	N7N	51	[2]
60	[2]	N7N	77	[4]	60	[4]	N7N	62	[4]
70	[2]	N7N	90	[4]	70	[3]	N7N	72	[3]
80	[2]	N7N	103	[4]	80	[4]	N7N	82	[4]
90	[2]	N7N	116	[4]	90	[3]	N7N	93	[3]
100	[3]	N7N	129	[4]	100	[4]	N7N	103	[4]
110	[3]	N7N	142	[4]	110	[3]	N7N	113	[4]
120	[3]	N7N	155	[4]	120	[4]	N7N	124	[4]
130	[3]	N7N	168	[4]	130	[4]	N7N	134	[4]
140	[3]	N7N	180	[4]	140	[4]	N7N	144	[4]
150	[3]	N7N	193	[4]	150	[4]	N7N	155	[4]

Boiler Water Inlet 150°F / 90°F

Domestic Water Temperature Rise at 40°F - 140°F					Domestic Water Temperature Rise at 40°F - 120°F				
DOM.GPM	PD/[PSI]	MODEL#	BWGPM	PD/[PSI]	DOM.GPM	PD/[PSI]	MODEL#	BWGPM	PD/[PSI]
50	[1]	N7N	85	[1]	50	[1]	N7N	82	[4]
60	[1]	N7N	102	[1]	60	[1]	N7N	98	[4]
70	[1]	N7N	119	[2]	70	[1]	N7N	114	[4]
80	[1]	N7N	136	[2]	80	[1]	N7N	131	[4]
90	[1]	N7NC	183	[2]	90	[1]	N7N	147	[4]
100	[1]	N7NC	204	[1]	100	[2]	N7N	164	[5]
110	[1]	N7NC	225	[1]	110	[2]	N7N	180	[5]
120	[1]	N7NC	245	[1]	120	[2]	N21N	197	[5]
130	[1]	N7NC	266	[1]	130	[2]	N21N	213	[5]
140	[1]	N7NC	286	[1]	140	[1]	N21N	229	[5]
150	[1]	N7NC	307	[1]	150	[1]	N21N	246	[5]

***NOTE:** Boiler water outlet temperatures can be adjusted, if required. Pressure drop values are for the heat exchanger only. System pressure drops will be based on control valve design.

Double Wall Plate & Frame



Domestic Water Pressure Drop	8 PSIG @ max. rated flow
Ambient Operating Temperature	0 °F-131° F
Electrical Requirements	120/1 /60 Hz 2 Amp 220/1/50 Hz 2 Amp
Standby Amperage Draw	2 Amp
High Limit "Tripped" Amperage Draw	2 Amp
Max. Continuous Water Flow Rate	150 GPM
Max. Boiler Water Pressure & Temperature	150 PSIG @ 220° F
Max. Domestic Water Operating Pressure	150 PSIG
Adjustable Temperature Control	up to 180° F
Adjustable High Limit Control	up to 200° F
Water Connection Inlets/Outlets	2" FNPT 6" FNPT (Flanged)
Weight (lbs.)	N7NCE: 625 (dry), 715 (installed) N21CE: 735 (dry), 810 (installed) N26CE: 1100 (dry), 1230 (installed)

AVAILABLE OPTIONS: Dry contacts for remote "High Limit Tripped Status" indication.

Note: Dimensions and Specifications subject to change without notice.

Double Wall Plate & Frame

Boiler Water Inlet 200°F / 120°F

Domestic Water Temperature Rise at 40°F - 140°F					Domestic Water Temperature Rise at 40°F - 120°F				
DOM.GPM	PD/[PSI]	MODEL#	BWGPM	PD/[PSI]	DOM.GPM	PD/[PSI]	MODEL#	BWGPM	PD/[PSI]
50	[1]	N7NE	65	[3]	50	[4]	N7NE	52	[3]
60	[2]	N7NE	78	[3]	60	[4]	N7NE	62	[4]
70	[2]	N7NE	91	[3]	70	[4]	N7NE	73	[4]
80	[2]	N7NE	104	[3]	80	[4]	N7NE	83	[4]
90	[2]	N7NE	117	[3]	90	[4]	N7NE	94	[4]
100	[2]	N7NE	130	[3]	100	[5]	N7NE	104	[4]
110	[2]	N7NE	143	[3]	110	[4]	N7NE	115	[5]
120	[2]	N7NE	156	[4]	120	[5]	N7NE	125	[5]
130	[2]	N7NE	169	[4]	130	[5]	N7NE	135	[5]
140	[4]	N21CE	182	[5]	140	[5]	N7NE	146	[5]
150	[3]	N21CE	195	[6]	150	[5]	N7NE	157	[5]

Boiler Water Inlet 180°F / 100°F

Domestic Water Temperature Rise at 40°F - 140°F					Domestic Water Temperature Rise at 40°F - 120°F				
DOM.GPM	PD/[PSI]	MODEL#	BWGPM	PD/[PSI]	DOM.GPM	PD/[PSI]	MODEL#	BWGPM	PD/[PSI]
50	[2]	N7NE	65	[4]	50	[2]	N7NE	51	[2]
60	[2]	N7NE	77	[4]	60	[4]	N7NE	62	[4]
70	[2]	N7NE	90	[4]	70	[3]	N7NE	72	[3]
80	[2]	N7NE	103	[4]	80	[4]	N7NE	82	[4]
90	[2]	N7NE	116	[4]	90	[3]	N7NE	93	[3]
100	[3]	N7NE	129	[4]	100	[4]	N7NE	103	[4]
110	[3]	N7NE	142	[4]	110	[3]	N7NE	113	[4]
120	[3]	N21CE	155	[4]	120	[4]	N7NE	124	[4]
130	[3]	N21CE	168	[4]	130	[4]	N7NE	134	[4]
140	[3]	N21CE	180	[4]	140	[4]	N7NE	144	[4]
150	[3]	N21CE	193	[4]	150	[4]	N7NE	155	[4]

Boiler Water Inlet 150°F / 90°F

Domestic Water Temperature Rise at 40°F - 140°F					Domestic Water Temperature Rise at 40°F - 120°F				
DOM.GPM	PD/[PSI]	MODEL#	BWGPM	PD/[PSI]	DOM.GPM	PD/[PSI]	MODEL#	BWGPM	PD/[PSI]
50	[1]	N7NE	85	[1]	50	[1]	N7NE	82	[4]
60	[1]	N7NE	102	[1]	60	[1]	N7NE	98	[4]
70	[1]	N7NE	119	[2]	70	[1]	N7NE	114	[4]
80	[1]	N7NE	136	[2]	80	[1]	N7NE	131	[4]
90	[1]	N21CE	183	[2]	90	[1]	N7NE	147	[4]
100	[1]	N21CE	204	[1]	100	[2]	N7NE	164	[5]
110	[1]	N21CE	225	[1]	110	[2]	N7NE	180	[5]
120	[1]	N21CE	245	[1]	120	[2]	N21CE	197	[5]
130	[1]	N26CE	266	[1]	130	[2]	N21CE	213	[5]
140	[1]	N26CE	286	[1]	140	[1]	N21CE	229	[5]
150	[1]	N26CE	307	[1]	150	[1]	N21CE	246	[5]

***NOTE:** Boiler water outlet temperatures can be adjusted, if required. Pressure drop values are for the heat exchanger only. System pressure drops will be based on control valve design.



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Specifications for DHT Water Heater

Each heater shall be capable of being disassembled and the heat exchanger section removed for inspection and service without breaking water connections and without moving the heater from its installed position.

WATER TO WATER

Furnish and install where shown on the plans _____ water heater(s), Model Number _____ manufactured by Diversified Heat Transfer, Inc.

Each heater shall be factory assembled package rated to heat _____ gpm of water from _____ ° F to _____ ° F and control the outlet within 4° F of the selected temperature, when supplied with _____ boiler water. The domestic water pressure drop through the heater shall not exceed _____ psig.

Each heater shall be constructed and stamped in accordance with Section VIII of the ASME Code for a working pressure of 150 psig. Inspection form U-1 shall be furnished.

Each packaged heater shall consist of the following components completely factory assembled so that the contractor need only connect to service.

- Heat Exchanger
- Control Valve
- Control Panel
- Inlet Strainers
- Isolation Valves
- Electrical Wiring
- Interconnecting Piping

The manufacturer shall assume the operational responsibility for all components of the package.

