



**ARIZONA
CLIMATE
SUPPLY**

2930 W WILLETTA ST,
PHOENIX, AZ 85009

CALL TODAY: 602-278-3020

SALES@ARIZONACLIMATESUPPLY.COM



**INDIRECT PLATE AND
FRAME COMMERCIAL
WATER HEATER**

**HOT WATER
ON DEMAND**

DESIGNED ★ ENGINEERED ★ ASSEMBLED

USA



Lochinvar®

UP TO 192 GPM OF DOMESTIC HOT WATER IN MINIMAL FLOOR SPACE

Lochinvar's Indirect Plate and Frame water heaters are specifically designed and manufactured for hot water systems with continuous loading. The system is designed to heat domestic water, on-demand without the need for large volumes of stored water. The result is less square footage required for mechanical equipment. Lochinvar's Indirect Plate and Frame is a factory packaged, skid-mounted instantaneous water heater that uses boiler water as the energy source. The heat exchanger is a double-wall plate and frame constructed of stainless steel. Temperature control is provided by a modulating temperature control valve (Figure 1).



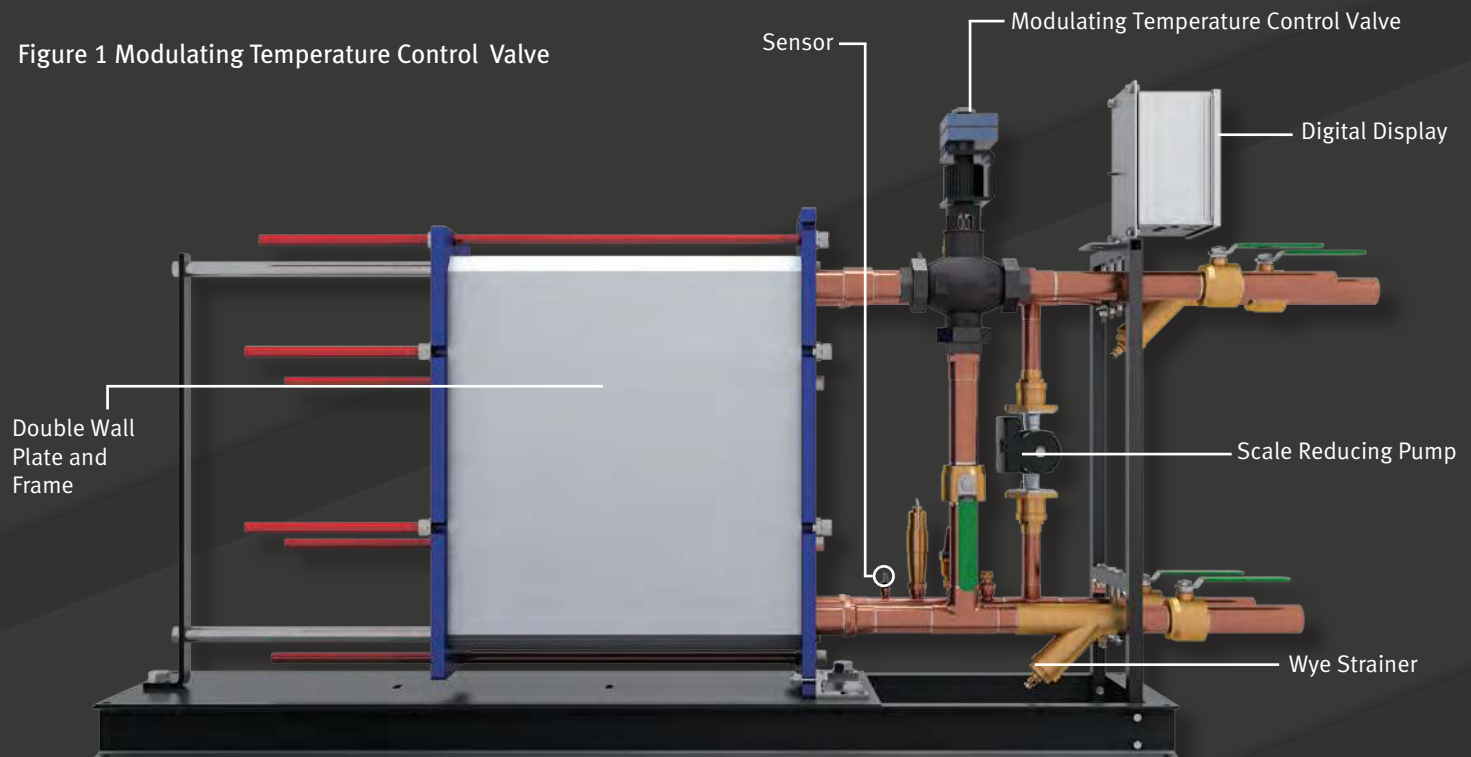
Figure 2 Digital Display

HOW IT WORKS

The simple-to-use electronic control provides a digital display (Figure 2) that is clear and easy to read and is BMS ready with Modbus built-in and provided as standard equipment. The electronic control infinitely modulates the valve in response to the hot water demand to deliver high turndown capacity. The high turndown capacity allows the domestic water to be delivered to the building at an accurate and reliable temperature regardless of the change in demand, whether it be 100% or a fraction of the load!



Figure 1 Modulating Temperature Control Valve



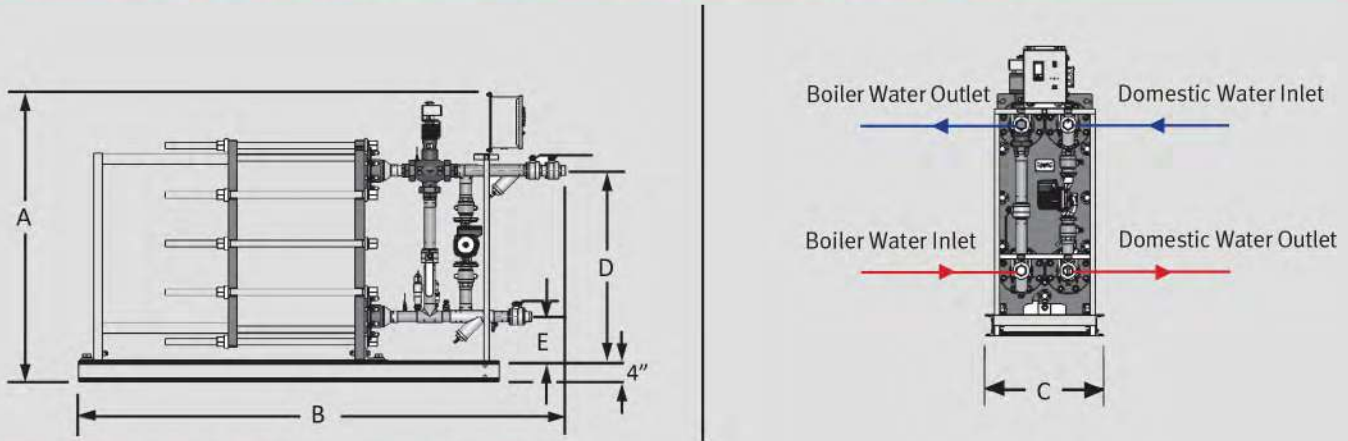
40°F DOMESTIC COLD WATER INLET

Model Number			160°F Boiler Water				Boiler Side	
	GPM @ 40 - 120°F	DHW Press. Drop (PSI)	GPM @ 40 - 140°F	DHW Press. Drop (PSI)	GPM @ 40 - 155°F	DHW Press. Drop (PSI)	GPM Boiler Water	Boiler Water Press. Drop (PSI)
IPW015DW	12	0.5	5	0.5	2	0.5	15	2
IPW030DW	25	1.5	12	0.5	7	0.5	30	7
IPW050DW	45	1	23	0.5	13	0.5	50	3.5
IPW070DW	61	1.5	27	0.5	16	0.5	70	6.5
IPW090DW	79	2	33	0.5	19	0.5	90	10
IPW105DW	91	1.5	38	0.5	23	0.5	105	5
IPW120DW	104	2	44	0.5	27	0.5	120	6.5
Model Number			180°F Boiler Water				Boiler Side	
	GPM @ 40 - 120°F	DHW Press. Drop (PSI)	GPM @ 40 - 140°F	DHW Press. Drop (PSI)	GPM @ 40 - 160°F	DHW Press. Drop (PSI)	GPM Boiler Water	Boiler Water Press. Drop (PSI)
IPW015DW	16	1	10	0.5	5	0.5	15	2
IPW030DW	34	2	21	1	13	0.5	30	7
IPW050DW	54	1.5	33	0.5	21	0.5	50	3.5
IPW070DW	81	2.5	45	1	29	0.5	70	6.5
IPW090DW	105	4	56	1	38	0.5	90	10
IPW105DW	120	2.5	65	1	45	0.5	105	5
IPW120DW	138	3.5	74	1	55	0.5	120	6.5
Model Number			200°F Boiler Water				Boiler Side	
	GPM @ 40 - 120°F	DHW Press. Drop (PSI)	GPM @ 40 - 140°F	DHW Press. Drop (PSI)	GPM @ 40 - 160°F	DHW Press. Drop (PSI)	GPM Boiler Water	Boiler Water Press. Drop (PSI)
IPW015DW	19	1	14	0.5	10	0.5	15	2
IPW030DW	43	3	30	2	19	1	30	7
IPW050DW	64	1.5	44	1	29	0.5	50	3.5
IPW070DW	100	4	63	1.5	36	0.5	70	6.5
IPW090DW	130	5	80	2.5	43	1	90	10
IPW105DW	148	3.5	92	1.5	52	0.5	105	5
IPW120DW	171	5	104	2	62	1	120	6.5

60°F Domestic Cold Water Inlet

Model Number			160°F Boiler Water				Boiler Side	
	GPM @ 60 - 120°F	DHW Press. Drop (PSI)	GPM @ 60 - 140°F	DHW Press. Drop (PSI)	GPM @ 60 - 155°F	DHW Press. Drop (PSI)	GPM Boiler Water	Boiler Water Press. Drop (PSI)
IPW015DW	13	0.5	6	0.5	2	0.5	15	2
IPW030DW	27	2	14	0.5	8	0.5	30	7
IPW050DW	48	1	25	0.5	14	0.5	50	3.5
IPW070DW	66	1.5	30	0.5	18	0.5	70	6.5
IPW090DW	85	2.5	37	0.5	21	0.5	90	10
IPW105DW	100	1.5	44	0.5	26	0.5	105	5
IPW120DW	114	2	50	0.5	30	0.5	120	6.5
Model Number			180°F Boiler Water				Boiler Side	
	GPM @ 60 - 120°F	DHW Press. Drop (PSI)	GPM @ 60 - 140°F	DHW Press. Drop (PSI)	GPM @ 60 - 160°F	DHW Press. Drop (PSI)	GPM Boiler Water	Boiler Water Press. Drop (PSI)
IPW015DW	17	1	11	0.5	6	0.5	15	2
IPW030DW	37	2.5	24	1.5	14	0.5	30	7
IPW050DW	59	1.5	37	0.5	23	0.5	50	3.5
IPW070DW	88	3	50	1	32	0.5	70	6.5
IPW090DW	114	4.5	64	1.5	42	0.5	90	10
IPW105DW	133	3	75	1	50	0.5	105	5
IPW120DW	153	3.5	85	1	62	0.5	120	6.5
Model Number			200°F Boiler Water				Boiler Side	
	GPM @ 60 - 120°F	DHW Press. Drop (PSI)	GPM @ 60 - 140°F	DHW Press. Drop (PSI)	GPM @ 60 - 160°F	DHW Press. Drop (PSI)	GPM Boiler Water	Boiler Water Press. Drop (PSI)
IPW015DW	21	1.5	16	1	11	0.5	15	2
IPW030DW	47	4	34	2	21	1	30	7
IPW050DW	70	2	49	1	32	0.5	50	3.5
IPW070DW	110	4.5	70	2	40	0.5	70	6.5
IPW090DW	143	6.5	91	3	48	1	90	10
IPW105DW	166	4.5	106	2	58	0.5	105	5
IPW120DW	192	5.5	120	2.5	70	1	120	6.5

INDIRECT PLATE AND FRAME DIMENSIONS AND SPECIFICATIONS



DIMENSIONS AND SPECIFICATIONS

Model Number	A	B	C	D	E	Water Connections	Shipping Weight(lbs)
IPW015DW	50"	66"	17"	31"	6"	1-1/4"	750
IPW030DW	50"	74"	17"	31"	6"	1-1/4"	900
IPW050DW	50"	87"	17"	31"	6"	2"	1075
IPW070DW	50"	97"	17"	31"	6"	2"	1225
IPW090DW	56"	101"	23"	37"	6"	2"	2020
IPW105DW	56"	107"	23"	37"	6"	2-1/2"	2175
IPW120DW	56"	107"	23"	37"	6"	2-1/2"	2258

STANDARD FEATURES

ASME Double Wall Heat Exchanger

- 316L Stainless Steel
- 150 psi Working Pressure

Digital Display

- Set Point Range 90°F to 180°F

Advance Temperature Control

Modulating Control Valve

Scale Reduction Pump

Automatic Air Vent

ASME Temperature and Pressure Relief Valve

- 210°F and 150 psi

Adjustable High Limit

Wye Strainers

Isolation Valves

Modbus Communication

5 Year Limited Warranty (See Warranty for Details)

1 Year Parts Warranty (See Warranty for Details)

CUSTOM PACKAGE SOLUTIONS

The Indirect Plate and Frame Water Heater can easily be incorporated with a skid-mounted package system. Please contact your local Sales Representative or Lochinvar Customer Assurance about a Custom Package Solution. (Package system does not always require buffer tank)



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Lochinvar, LLC
300 Maddox Simpson Parkway
Lebanon, Tennessee 37090
P: 615.889.8900 / F: 615.547.1000

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LOW LEAD CONTENT

