

## LH SERIES - Steam Fired Instantaneous Water Heater



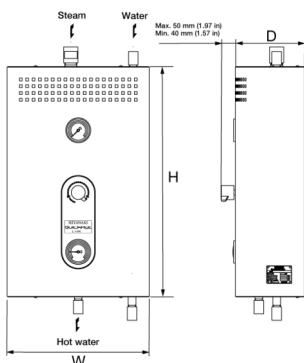
### LH15-II

- Environmentally friendly – does not emit CO, CO<sub>2</sub>, and Nox.
- Clean hot water by indirect heating from steam.
- High thermal efficiency of 91% that surpasses gas and electric hot water supplies.
- Easy maintenance.

Model	Connection					Heating method	Installation method	Hot water supply method
	Type	Size						
		Water inlet	Steam inlet	Hot water outlet	Steam condensate discharge outlet			
LH15-II	Screwed Rc	1/2"	1"	1/2"	1/2"	Indirect heating	Wall mounted	One-way hot water supply (circulated water supply not possible)

Model	Hot water supply temperature range		Hot water supply pressure	Steam pressure range		Water supply pressure range		Max. steam use rate		Max. heat exchange volume (kW)
	(°C)	(°F)		(MPa)	(psig)	(MPa)	(psig)	(kg/h)	(lb/h)	
LH15-II	70 - 90	158 - 194	Depends on water supply pressure	0,2 - 0,5* (flow pressure)	29 - 72.5* (flow pressure)	0,1 - 0,4* (flow pressure)	14.5 - 58* (flow pressure)	220	485.0	118

Steam pressure		Water supply pressure		Hot water supply rate (ℓ/min) by water temperature		
(MPa)	(psig)	(MPa)	(psig)	70°C 158°F	80°C 176°F	90°C 194°F
0,2	29	0,1	14.5	17	15	12
		0,2	29			
		0,3	43.5			
		0,4	58			
0,3	43.5	0,1	14.5	19	17	15
		0,2	29	22	19	
		0,3	43.5			
		0,4	58			
0,4	58	0,1	14.5	19	17	16
		0,2	29	27	23	
		0,3	43.5			
		0,4	58			
0,5	72.5	0,1	14.5	20	18	16
		0,2	29	26	24	
		0,3	43.5	30	26	
		0,4	58			



Dimensions (mm)			Dimensions (in)			Weight	
W	H	D	W	H	D	(kg)	(lb)
401	648	195	15.8	25.5	7.7	30,0	66.2

- Accessories: Y strainer (100 mesh) 1"x1, Y strainer (100 mesh) 1/2" x1.
- The maximum rated heat output through steam pressure is 101450 kcal/h.  
\*Do not exceed 0,5 MPa (73psig) of steam pressure or 0,4 MPa (58psig) of water supply pressure under static pressure.
- Condensate recovery not possible because if condensate were to be recovered, main water discharged from the pressure relief valve and other such types of water would be returned to the tank.
- Hot water supply rate is for when water supply temperature is 15°C (59°F)
- Min. flow rate 3L/min.
- If the flow rate drops below the minimum then this may cause fluctuations in hot water supply temperature.



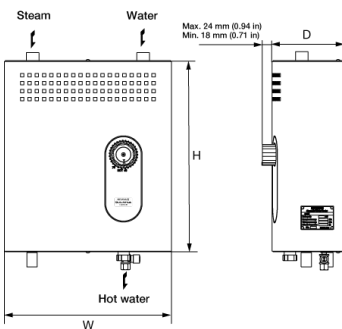
### LM15-IV

- Environmentally friendly – does not emit CO, CO<sub>2</sub>, and Nox.
- Clean hot water by indirect heating from steam.
- High thermal efficiency of 91% that surpasses gas and electric hot water supplies.
- Quiet operation with a background noise of around 45dB.
- Suitable for food manufacturing (leaching tests passed).
- Easy maintenance.

Model	Connection							Heating method	Installation method	Hot water supply method
	Type	Size								
		Steam inlet	Water inlet	Hot water supply	Steam condensate discharge	Pressure relief valve discharge	Inspection valve			
LM15-IV	Screwed Rc	1/2"	1/2"	1/2"	3/8"	3/8"	1/8"	Indirect heating	Wall mounted	One-way hot water supply (circulated water supply not possible)

Model	Hot water supply temperature range		Hot water supply pressure	Steam pressure		Water supply pressure		Max. steam use rate (kg/h)	Max. rated heat output (kW)
	°C	°F		Range (MPa)	Range (psig)	Range (MPa)	Range (psig)		
LM15-IV	40 - 70°C	104 - 158°F	Depends on water supply pressure	0,1 - 0,3 (flow pressure)	14.5 - 43.5 (flow pressure)	0,1 - 0,4* (flow pressure)	14.5 - 58* (flow pressure)	92	54

Steam pressure		Water supply pressure		Hot water supply rate (ℓ/min) by water temperature			
(MPa)	(psig)	(MPa)	(psig)	40°C	50°C	60°C	70°C
				104°F	122°F	140°F	158°F
0,1	14.5	0,1	14.5	16	11	8	7
		0,2	29				
		0,3	43.5				
		0,4	58				
0,2	29	0,1	14.5	23	16	12	10
		0,2	29				
		0,3	43.5				
		0,4	58				
0,3	43.5	0,1	14.5	30	22	16	13
		0,2	29				
		0,3	43.5				
		0,4	58				



Dimensions (mm)			Dimensions (in)			Weight	
W	H	D	W	H	D	(kg)	(lb)
375	408	153	14.8	16.1	6.0	16,0	35.3

- The maximum rated heat output through steam pressure is 46,200kcal/h.
- \*Do not exceed 0,4 MPa (58psig) of water supply pressure under static pressure.
- If recovering condensate, ensure a pressure differential of at least 0,03MPa (4.4psig). If back pressure is applied to the condensate discharge pipe, the maximum hot water supply rate drops.
- Low-temperature options: A 30°C - 50°C (86°F - 122°F) type\*1 can be manufactured. Please do not hesitate to make inquiries. \*1 The 30°C - 50°C (86°F - 122°F) type has not undergone any leaching performance tests.
- In the event of deterioration of internal components, performance may fall below the performance when the product passed its leaching performance test.
- Hot water supply rate is for when water supply temperature is 15°C (59°F)
- Minimum flow rate 5ℓ/min
- If the flow rate drops below the minimum then this may cause fluctuations in hot water supply temperature.



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