

# HD28 | Specification Guide

## Heavy Duty Continuous Flow Hot Water

Rinnai were the first to introduce the Commercial Heavy Duty Continuous Flow water heater, back in 2003. Today's Rinnai HD28 is the result of Japanese progress culminating in the ultimate quality design and efficiency.

No commercial hot water task is too much for this heater with its 28 l/min flow rate and 48kW energy output. Available in both internal or external options and packed with features its perfect for almost all Commercial hot water applications from process plant equipment to simple ablution facilities.



## Features

- 83% thermal efficiency
- Renowned Japanese design, quality and components
- Manufactured in Rinnai's own state of the art facility
- 48kW output capacity
- Internal and external options available
- Heat exchange bypass technology to maintain perfect temperature while reducing pressure loss
- MECs (Manifold Electronic Control System) compatible
- External heater has a status operation monitor displaying the set water temperature and system status
- Internal heater has an in-built controller displaying the set water temperature and system status
- Building Management System (BMS) fault option
- Low pressure loss design
- High temperature safety cut-out
- Water controllers can be fitted and interfaced with MECs for superior control
- 42°C, 50°C or 75°C pre-set temperatures available
- Anti-frost protection down to -20°C
- Natural gas or LPG models available



# Rinnai

# Selection

A continuous flow water heater never runs out of hot water and will deliver the desired flow rate and energy output capacity relative to the temperature of the incoming water. Our in-house designed and built PCB communicates closely with the incoming water servo, bypass assembly and gas valve to measure, and modulate the unit ensuring the correct temperature and flow is maintained, at all times.

		HD28e / HD28i Energy output (kW)								
		Flow Rate (l/min)								
Temperature Rise (°C)		5	10	15	20	25	30	35	37	
	5	2	3	5	7	9	10	12	13	
	10	3	7	10	14	17	21	24	26	
	15	5	10	16	21	26	31	37	39	
	20	7	14	21	28	35	42	49		
	25	9	17	26	35	44				
	30	10	21	31	42					
	35	12	24	37						
	40	14	28	42						
	45	16	31	47						
	50	17	35							
	55	19	38							
60	21	42								
65	23	45								
70	24									
75	26									

	HD28e	HD28i
Flow at MAX	37.0 l/min	37.0 l/min
Flow at 20°C rise	35.0 l/min	35.0 l/min
Flow at 25°C rise	28.0 l/min	28.0 l/min
Flow at 35°C rise	20.0 l/min	20.0 l/min
Flow at 45°C rise	15.5 l/min	15.5 l/min
Flow at 50°C rise	14.0 l/min	14.0 l/min
Flow at 60°C rise	11.5 l/min	11.5 l/min
Flow at 75°C rise	9.0 l/min	9.0 l/min

Model		HD28e	HD28i	
Factory pre-set temperatures	°C	75	75	
		50	50	
		42	42	
Max temperature setting	°C	85	85	
Min operating water flow rate (L/min)		1.4	1.4	
Min water pressure (kPa)		220	220	
Max water pressure (kPa)		1000	1000	
Gas rate (MJ/h)	NG	Min	11	11
		Max	210	210
	LPG	Min	11	11
		Max	210	210
Thermal efficiency	%	83.3%	83.3%	
Star rating		6.0	6.0	
Max capacity	kW	48.8	48.8	
MECS compatibility		Yes	Yes	
Status Monitor		Yes	No	
Inbuilt controller		No	Yes	
Electrical consumption	W	66	95	
Sound Level	dBA	<52	<52	
Width	A (mm)	357	357	
Depth (inc brackets)	B (mm)	272	245	
Height	C (mm)	583	583	
Hot water outlet (from wall)	D (mm)	96	91	
Hot water outlet (from centre)	E (mm)	110	110	
Cold water inlet (from wall)	F (mm)	75	70	
Cold water inlet (from centre)	G (mm)	27*	27*	
Gas connection (from wall)	H (mm)	104	99	
Gas connection (from centre)	I (mm)	89	89	
Hot/ Cold/Gas fitting diameter	(mm)	20	20	
Weight	(kg)	20	21	

\*Please note that this measurement is to the left of the centre line.

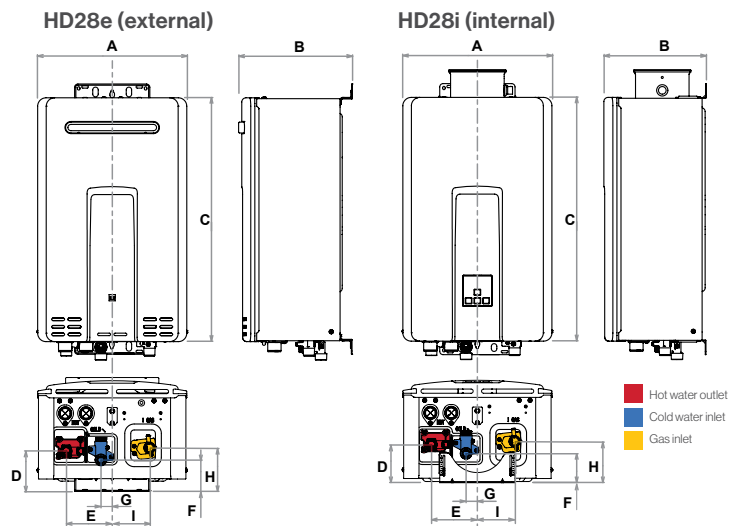
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### TOTAL HOME COMFORT



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