Specification

Designed and made in Japan, the Rinnai INFINITY REU-VCM models are continuous flow gas hot water heaters with inbuilt frost protection. They have electronic ignition and require electricity to operate. The internal units are a room sealed appliances. The internal units have an inbuilt controller on the front panel, the external unit has a status monitor.

The INFINITY HD VCM units are factory preset to 50 °C, but can be set to deliver higher temperatures, up to 85 °C, making them ideal for commercial applications. The INFINITY A28i is factory preset to 50 °C and is suitable for residential applications only.

Specification summary
- Colour Silver (HD), white (A28i)
- Input 11-210 MJ/h
- Output 48.8 kW
- Efficiency 83.5 %

Suitability
HD49 units are primarily designed for commercial applications, but can be used for larger hot water capacity residential projects. The A28i is suitable for residential applications only.

They are not suitable as a spa or swimming pool heater, or for hydronic heating.

Hard or acidic water will need to be treated to use this product.

Capacity
Hot water capacity 1.4-37 litres per minute.

Nominal water capacity 28 litres per minute at a 25° rise (1680 L/h).

Connections
Hot water outlet R¾ (20 mm)
Cold water inlet R¾ (20 mm)
Gas supply R¾ (20 mm)

Exhaust system: Forced flue

Ignition system: Direct electronic ignition.

Line pressures
NG 1.13-3.0 kPa
LPG 2.75-3.0 kPa

Line pressure maximum
3.5 kPa (maximum standing pressure under abnormal intermittent conditions is 5.0 kPa). In the case of commercial metering (i.e. 35-37 kPa coming in), there may be a requirement to regulate the incoming line pressure down.

Ingress protection rating
- HD49kWe IPX5
- HD49kWi / A28i IPX2

Power consumption

	HD49kWe	HD49kWi / A28i
Normal	66 W	95 W
Standby	2 W	2 W
Antifrost	104 W	120 W

Noise level
Internal units: 54 dB(A)
External unit: 52 dB(A)

NOx af: 40 ppm

Safety devices
- Flame failure
- Boil-dry protection
- Overheat protection (OHS)
- Fusible link
- Pressure relief valve
- Combustion fan rpm check

Water supply
Nominal operating pressure: 220-1000 kPa
Minimum operating pressure: 10 kPa
Minimum water flow: 1.5 litres per minute

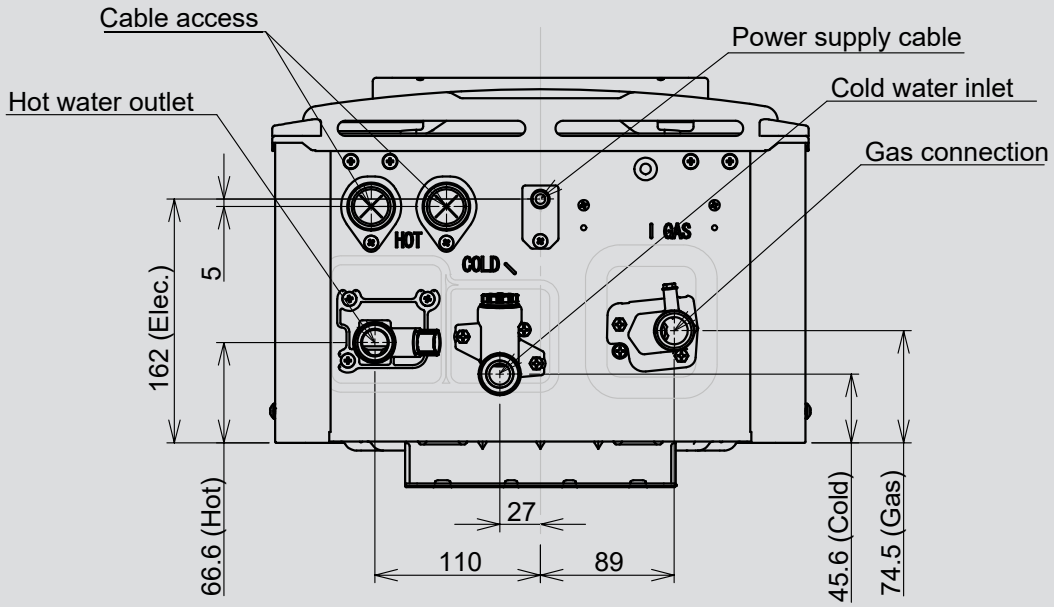
Weights
Internal - 21 kg External - 20 kg

Internal model flueing
The internal HD49kWi and A28i models MUST USE Rinnai flue components—use of non approved flue components will result in a dangerous installation.

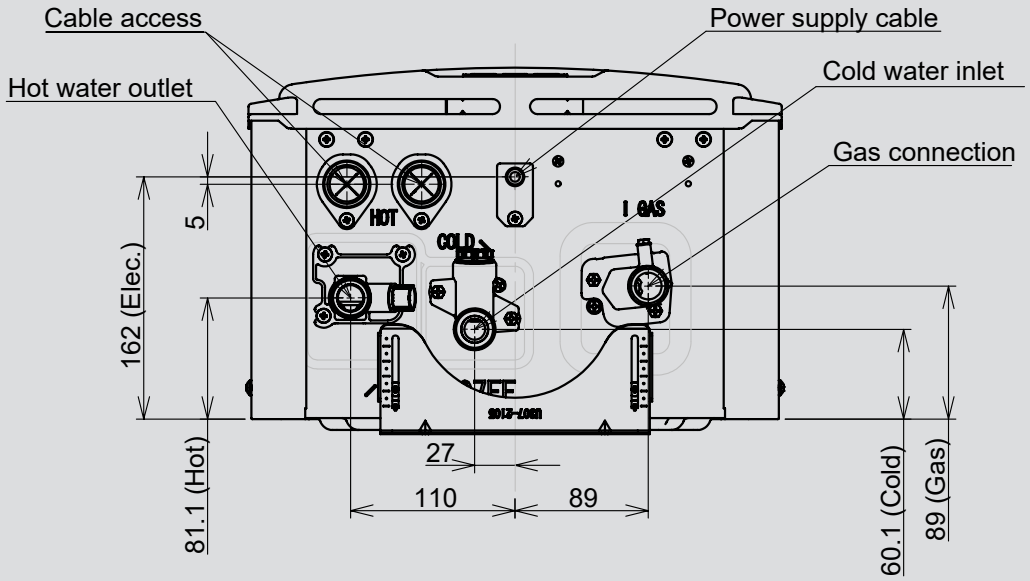
A Rinnai flue system must be installed in accordance with the Rinnai flue installation manual provided with the flue kit and/or components. Refer to the flue manual for more information and flue configuration options.

Connections

HD49kWe external



HD49kWi and A28i internal



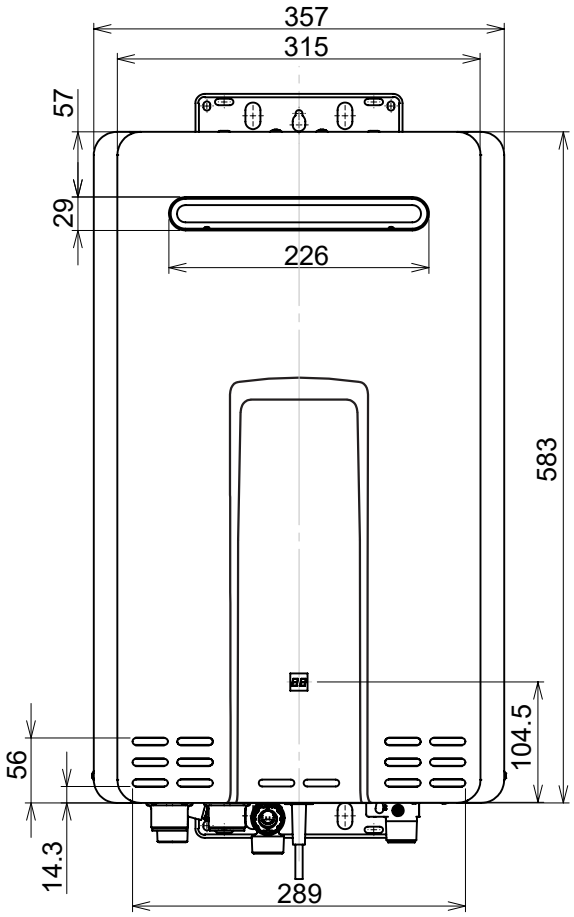
Service connection points
An approved full flow isolation valve and disconnection union MUST BE fitted to the cold water inlet. A non-return valve is not required unless stipulated by local regulations.

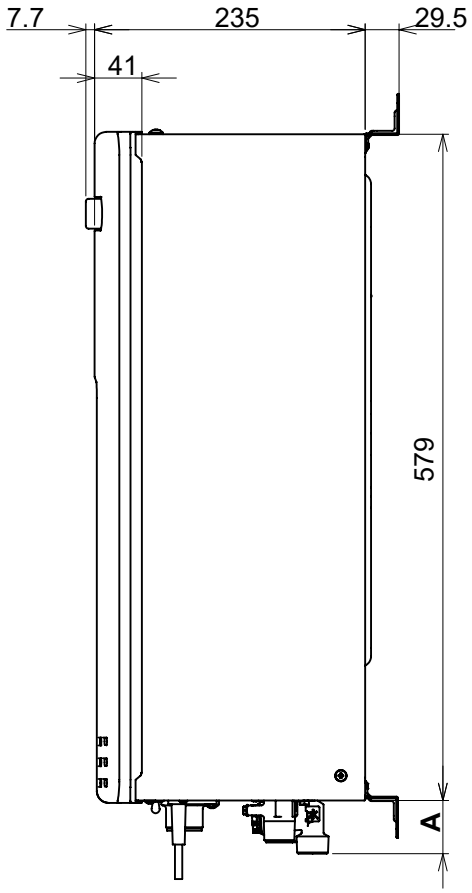
Isolation valves MUST NOT be fitted directly to the appliance.

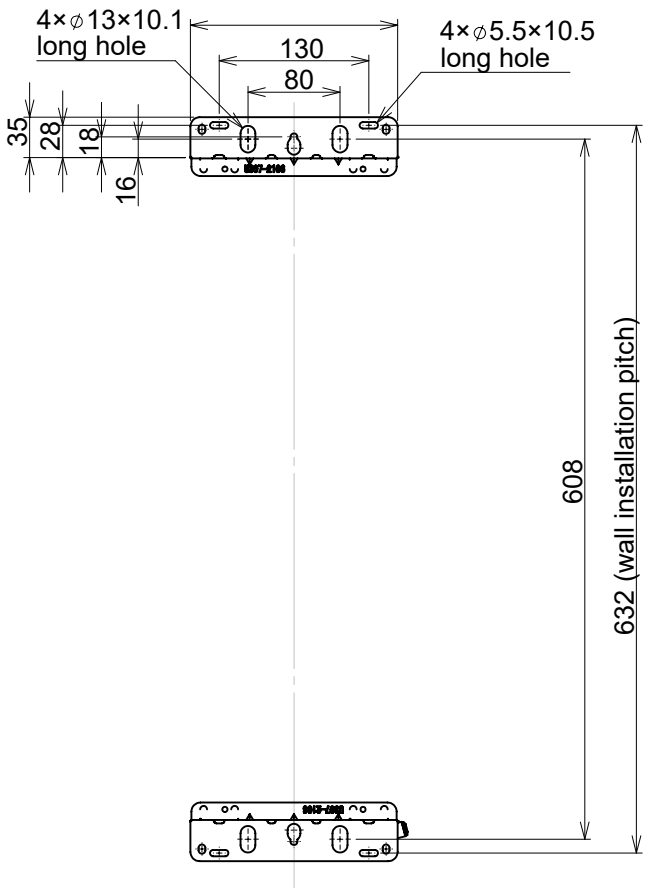
It may be necessary to fit a temperature limiting device for delivery to areas used primarily for the purposes of personal hygiene, refer page on ‘Water delivery temperature’ for more information.

Purge gas and cold water supply lines to remove air and swarf before final connection. Swarf in the gas or water supplies may cause damage, a common problem, which is not covered by warranty.

HD49kWe external dimensions (mm)

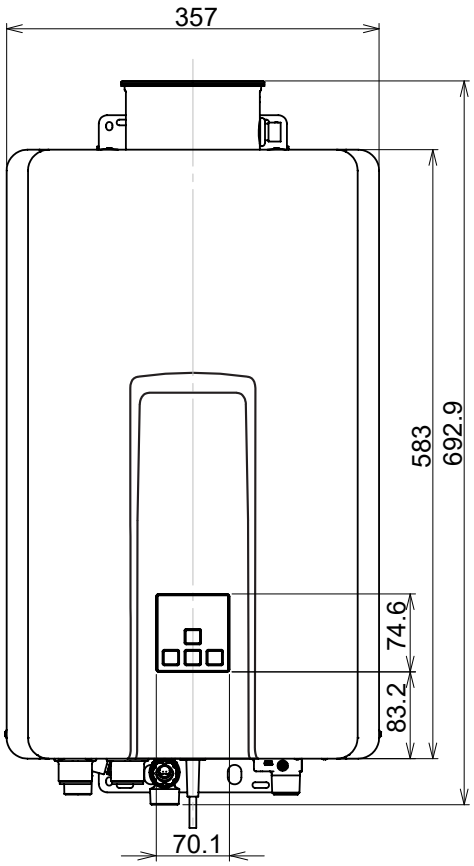


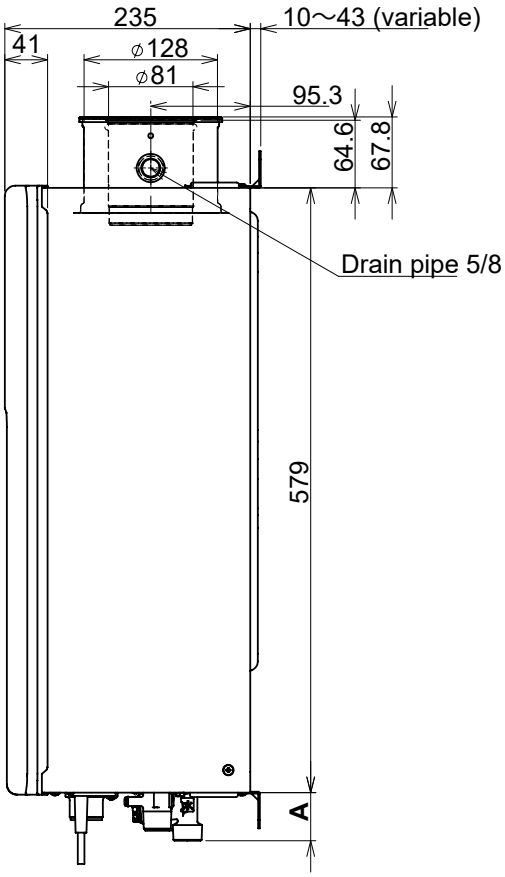


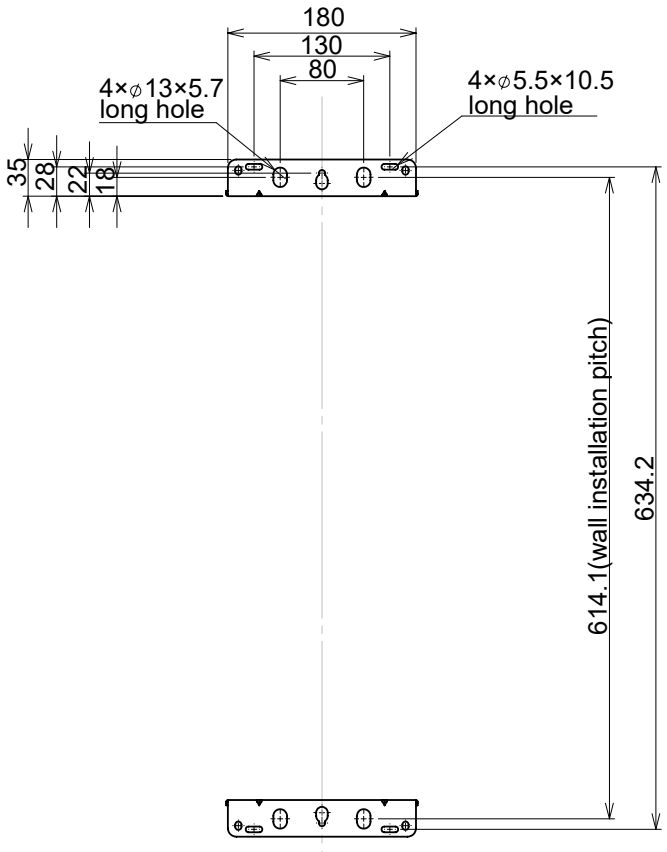


	A dimension
Gas	36.4
Cold	46.1
Hot	36.3
Cable access	26.2

HD49kWi and A28i internal dimensions (mm)







	A dimension
Gas	36.4
Cold	46.1
Hot	36.3
Cable access	26.2