

# ZIP HOT WATER

## THE ULTIMATE IN COMFORT AND EFFICIENCY



IT'S WATER. REFRESHED.

Nicheliving  
Beckenham Apartments, Perth WA



Tribeca South  
BGC Developments, Perth WA



Hobart City Council  
Tasmania



# ZIP – THE GREAT AUSTRALIAN SUCCESS STORY.

From a small Sydney manufacturer of water heaters for kitchens and bathrooms in 1962 to an industry leader with exports to over 60 countries, Zip continues to set the global standard.

In fact, we were recently recognised with the Australian National Exporter Award. Over the last 50 years our business has grown to employ over 500 Australians with branches across the country as well as offices in the UK the UAE and New Zealand.

At Zip, we are driven by innovation and a passion for providing quality products and service. By incorporating world-class German made instantaneous hot water heating technologies we have evolved the instant delivery promise Zip is so famous for.

A handwritten signature in black ink, appearing to read 'John Doumani'.

**John Doumani, CEO**

ThyssenKrupp Headquarters  
Essen, Germany



## **ZIP LEADS THE WAY IN TOUCH-FREE WASHROOM SYSTEMS.**

### **EXPERIENCED CONSULTANTS**

When you are considering specification of point of use hot water concepts remember – Zip has been leading the way in point of use storage and instantaneous water heating technology for more than 10 years. Zip instantaneous and small storage water heaters are installed in thousands of buildings worldwide.

Zip has an independent report by one of Australia's leading multi-discipline consulting firms comparing Instantaneous Hot Water products to various other options for the provision of domestic water heating plant to commercial residential buildings, for a copy of this report please contact your local Zip representative.

### **INSTALLATION TRAINING**

For more than 10 years, Zip has been providing on-site specification, installation, trouble-shooting and routine maintenance training for all our products. Architects, interior designers, plumbing contractors and maintenance contractors are welcome to take advantage of our training seminars as a free-of-charge service.

### **NATIONAL SERVICE NETWORK**

Zip point of use hot water systems are backed by a network of qualified service technicians covering virtually the whole of Australia. The network comprises more than 70 full-time mobile Zip service technicians in major cities, plus more than 300 accredited service technicians covering the smaller cities and country towns.



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## ZIP MCX FOR SMART AND ECO FRIENDLY CONVENIENCE

This top of the range mini instantaneous water heater boasts an impressive list of features and outstanding design. The intelligent electronic system with flow detection automatically adjusts the power consumption for maximum efficiency.

Designed to be installed directly at the point of use the Zip MCX delivers warm water on demand, eliminating the energy and water inefficiencies associated with traditional storage water heaters and long pipe runs (dead legs). This all adds up to the most convenient and efficient warm water solution available.

# ZIP MCX

## ZIP MCX MINI ELECTRONIC INSTANTANEOUS WATER HEATER

- Mini-sized, electronically controlled under-sink instantaneous water heater to supply warm water to a hand wash basin
- Electronic power control adjusts to compensate for inlet pressure and temperature variations
- Bare wire technology IES® achieves maximum efficiency plus the fastest possible heat up time
- Supplied complete with special low flow aerator to suitable for M22/24 taps
- No tempering valve required\*
- Simple and quick installation with exposed 12.7mm BSP water connections for direct connection to the tap
- 12 months commercial or 5 years residential warranty





### USER FRIENDLY TOUCH KEY CONTROL

The sensor button is used to preset the preferred temperature. There is a choice of three temperature settings: ECO (35°C), COMFORT (38°C) or MAX (45°C).

The temperature is indicated by discreet LED lights that also act as an operating and diagnostic display.



### Aerator (tap nozzle)

Zip mini instantaneous water heaters are supplied with an appropriate low flow aerator. This optimises the stream of water and helps to achieve energy and water savings. To ensure optimal performance, this aerator must be fitted to the tap spout.



| Model no.  | Power Rating @ 1Ph 230V | Temperature rise** (°C) @ Flow rate |         |         |         |         |         |
|--|-------------------------|-------------------------------------|---------|---------|---------|---------|---------|
| <b>ZIP MCX PERFORMANCE</b>   |                         |                                     |         |         |         |         |         |
|  |                         | 1.2 L/m                             | 1.5 L/m | 2.0 L/m | 2.5 L/m | 3.0 L/m | 3.3 L/m |
| CL1502   | 3.5 kW                  | 41                                  | 33      | 25      | -       | -       | -       |
| CL1503   | 4.4 kW                  | -                                   | 41      | 31      | 25      | -       | -       |
| CL1504   | 5.7 kW                  | -                                   | 45*     | 40      | 32      | 27      | 24      |
| Pressure Drop (kPa)  |                         | 20                                  | 25      | 30      | 60      | 85      | 100     |
| MCX models limited to maximum 50°C in accordance with AS3498; no tempering valve required.<br>* Maximum temperature setting of the product.<br>** Add temperature rise to incoming water temperature to determine what outlet temperature is possible. |                         |                                     |         |         |         |         |         |



## ZIP CEX 9 MPS® FOR INTELLIGENT EFFICIENT HOT WATER DELIVERY

This top of the range compact instantaneous water heater boasts an impressive list of features and outstanding design. The intelligent electronic system with flow detection automatically adjusts the power consumption for maximum efficiency.

Designed to be installed directly at the point of use the Zip CEX 9 and CEX 9-U deliver hot water up to 50°C on demand, eliminating the energy and water inefficiencies associated with traditional storage water heaters and long pipe runs (dead legs). This all adds up to the most convenient and efficient hot water solution available

# ZIP CEX 9

### ZIP CEX 9 MPS® COMPACT ELECTRONIC INSTANTANEOUS WATER HEATER

- Compact, electronically controlled instantaneous water heater for single or multipoint applications
- Electronic power control adjusts to compensate for inlet pressure and temperature variations
- Bare wire technology IES® achieves maximum efficiency plus the fastest possible heat up time
- Multiple Power System MPS simplifies purchasing with the installer able to select their preferred power setting during installation
- No tempering valve required (models limited to 50°C in accordance with AS3498)
- Simple and quick installation, with exposed 12.7mm BSP water connections for direct connection to the tap
- 12 months commercial or 5 years residential warranty







**50°C**  
Delivers hot water not exceeding 50°C in accordance with AS3498



**USER-FRIENDLY TWO-KEY CONTROL PANEL AND INTEGRATED LC DISPLAY**

**Easy-to-read display**

The two-key control panel with large integrated LC display allows the user to set the temperature to the exact degree between 20°C and 50°C.

Two touch-keys to set individual desired temperatures. Individual fixed values are stored using the two programming keys. It is also possible to activate a temperature limit and to display operating and servicing values.

| Model no.                  | Power Rating @ 1Ph 230V | Switch On | Temperature rise** (°C) @ Flow rate |       |       |       |       |
|----------------------------|-------------------------|-----------|-------------------------------------|-------|-------|-------|-------|
| <b>ZIP MPS PERFORMANCE</b> |                         |           |                                     |       |       |       |       |
|                            |                         | 2.0 L/m   | 3.0 L/M                             | 4 L/m | 5 L/m | 6 L/m | 7 L/m |
| CL1505 & CL1506^           | 6.6kW                   | 47        | 31                                  | 23    | 18    | 15    | -     |
|                            | 8.8kW                   | 50*       | 41                                  | 31    | 25    | 20    | 17    |
| Pressure Drop (kPa)        |                         | 15        | 30                                  | 40    | 50    | 60    | 80    |

CL1505 & CL1506 models are supplied with a 5L/m flow restrictor, a 7L/m flow restrictor is available on request.  
 Note: All models in the above table are limited to a maximum temperature below 50°C in accordance with AS3498; no tempering valve required.  
 \* Maximum temperature setting of the product  
 \*\* The temperature rise should be added to the ambient incoming water temperature to determine what outlet temperature is possible.  
 ^ CL1506 is configured for under-bench installation with connections on top



Optional wireless remote control Zip Part 99374.

## ZIP CEX-U MPS® FOR INTELLIGENT EFFICIENT HOT WATER DELIVERY

This top of the range compact instantaneous water heater boasts an impressive list of features and outstanding design. The intelligent electronic system with flow detection automatically adjusts the power consumption for maximum efficiency.

Designed to be installed directly at the point of use the Zip CEX-U delivers hot water up to 50°C on demand, eliminating the energy and water inefficiencies associated with traditional storage water heaters and long pipe runs (dead legs). This all adds up to the most convenient and efficient hot water solution available.

# ZIP CEX-U

## ZIP CEX-U MPS® COMPACT ELECTRONIC INSTANTANEOUS WATER HEATER

- Compact, electronically controlled instantaneous water heater for single or multipoint applications
- Electronic power control adjusts to compensate for inlet pressure and temperature variations
- Bare wire technology IES® achieves maximum efficiency plus the fastest possible heat up time
- Multiple Power System MPS simplifies purchasing with the installer able to select their preferred power setting during installation
- No tempering valve required (models limited to 50°C in accordance with AS3498)
- 12 months commercial or 5 years residential warranty
- 60°C model also available, suitable for installations which don't require temperature control or for use with a Zip HORNE Thermostatic Mixing Valve (TMV)
- Simple and quick installation, with exposed 12.7mm BSP water





**50°C**  
Delivers hot water not exceeding 50°C in accordance with AS3498



**USER-FRIENDLY TWO-KEY CONTROL PANEL AND INTEGRATED LC DISPLAY**

**Easy-to-read display**

The two-key control panel with large integrated LC display allows the user to set the temperature to the exact degree between 20°C and 50°C.

Two touch-keys to set individual desired temperatures. Individual fixed values are stored using the two programming keys. It is also possible to activate a temperature limit and to display operating and servicing values.

| Model no.  | Power Rating @ 3Ph 400V | Switch On | Temperature rise** (°C) @ Flow rate |       |       |       |       |
|--|-------------------------|-----------|-------------------------------------|-------|-------|-------|-------|
| <b>ZIP CEX-U MPS PERFORMANCE</b>   |                         |           |                                     |       |       |       |       |
|  |                         | 2.0 L/m   | 3.0 L/M                             | 4 L/m | 5 L/m | 6 L/m | 7 L/m |
| CL1003   | 11kW                    | 50*       | 50*                                 | 39    | 31    | 26    | 22    |
|  | 13.5kW                  | 50*       | 50*                                 | 48    | 39    | 32    | 28    |
| Pressure Drop (kPa)  |                         | 15        | 25                                  | 35    | 45    | 60    | 75    |
| Model no.  | Power Rating @ 3Ph 400V | Switch On | Flow Rate                           |       |       |       |       |
|  |                         | 2.0 L/m   | 3.0 L/m                             | 4 L/m | 5 L/m | 6 L/m | 7 L/m |
| CL1507 (60°C)  | 11kW                    | 60*       | 52                                  | 39    | 31    | 26    | 22    |
|  | 13.5kW                  | 60*       | 60*                                 | 48    | 39    | 32    | 28    |
| Pressure Drop (kPa)  |                         | 15        | 25                                  | 35    | 45    | 60    | 75    |
| CL1003 model limited to a maximum of 50°C in accordance with AS3498; no tempering valve required.<br>Note: The above models are supplied with a 5L/m flow restrictor, a 7L/m flow restrictor is available on request.<br>* Maximum temperature setting of the product<br>** The temperature rise should be added to the ambient incoming water temperature to determine what outlet temperature is possible. |                         |           |                                     |       |       |       |       |



Optional wireless remote control Zip Part 99374.

## ZIP DEX MPS® FOR ECONOMIC MULTI POINT HOT WATER SOLUTIONS

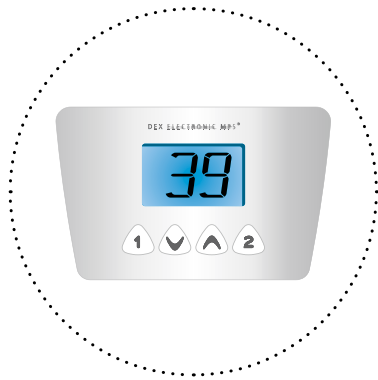
Perfect for multipoint applications and with all the features that characterise a good electronic instantaneous water heater the Zip DEX is the perfect no frills choice for your next project. The intelligent electronic system with flow detection automatically adjusts the power consumption for maximum comfort and efficiency. Designed for easy installation the Zip DEX delivers hot water up to 50°C on demand, eliminating the energy and water inefficiencies associated with traditional storage water heaters and long pipe runs (dead legs). This all adds up to the most convenient and economic multipoint hot water solutions available.

# ZIP DEX

### ZIP DEX MPS® ELECTRONIC INSTANTANEOUS WATER HEATERS

- Compact, electronically controlled instantaneous water heater for single or multipoint applications
- Electronic power control adjusts to compensate for inlet pressure and temperature variations
- Bare wire technology IES® achieves maximum efficiency plus the fastest possible heat up time
- Electronic safety system with air bubble detection
- Multiple Power System MPS simplifies purchasing with the installer able to select their preferred power setting during installation
- No tempering valve required (models limited to 50°C in accordance with AS3498)
- 60°C model also available, suitable for installations which don't require temperature control or for use with a Zip HORNE Thermostatic Mixing Valve (TMV)
- No flue, ventilation or safe tray required
- Simple and quick installation, with 12.7mm BSP water connections and built in isolation valve
- 12 months commercial or 5 years residential warranty Zip HORNE Thermostatic Mixing Valve (TMV)





**USER-FRIENDLY TWO-KEY CONTROL PANEL AND INTEGRATED LC DISPLAY**

**Easy-to-read display**

The two-key control panel with large integrated LC display allows the user to set the temperature to the exact degree between 20°C and 50°C.

Two touch-keys to set individual desired temperatures. Individual fixed values are stored using the two programming keys. It is also possible to activate a temperature limit and to display operating and servicing values.

**50°C**  
Delivers hot water not exceeding 50°C in accordance with AS3498



| Model no.                  | Power Rating @ 3Ph 400V | Switch On | Temperature rise** [°C] @ Flow rate |       |       |       |       |      |      |     |
|----------------------------|-------------------------|-----------|-------------------------------------|-------|-------|-------|-------|------|------|-----|
| <b>ZIP DEX PERFORMANCE</b> |                         |           |                                     |       |       |       |       |      |      |     |
|                            |                         | 2.5 L/m   | 3.0 L/                              | 4 L/m | 5 L/m | 6 L/m | 7 L/m | 8L/m | 9L/m |     |
| CL1002                     | 18kW                    | 50*       | →                                   |       | 50*   | 43    | 37    | 32   | 29   | 26  |
|                            | 21kW                    | 50*       | →                                   |       |       | 50*   | 43    | 38   | 33   | 30  |
|                            | 24kW                    | 50*       | →                                   |       |       | 50*   | 49    | 43   | 38   | 34  |
|                            | 27kW                    | 50*       | →                                   |       |       |       | 50*   | 48   | 43   | 39  |
| Pressure Drop [kPa]        |                         | 15        | 25                                  | 40    | 65    | 80    | 115   | 125  | 150  | 180 |
| Model no.                  | Power Rating @ 3Ph 400V | Switch On | Flow Rate                           |       |       |       |       |      |      |     |
|                            |                         | 2.5 L/m   | 3.0 L/M                             | 4 L/m | 5 L/m | 6 L/m | 7 L/m | 8L/m | 9L/m |     |
| CL1508 [60°C]              | 18kW                    | 60*       | →                                   | 60*   | 51    | 43    | 37    | 32   | 29   | 26  |
|                            | 21kW                    | 60*       | →                                   |       | 60*   | 50    | 43    | 38   | 33   | 30  |
|                            | 24kW                    | 60*       | →                                   |       | 60*   | 57    | 49    | 43   | 38   | 34  |
|                            | 27kW                    | 60*       | →                                   |       |       | 60*   | 55    | 48   | 43   | 39  |
| Pressure Drop [kPa]        |                         | 15        | 25                                  | 40    | 65    | 80    | 115   | 125  | 150  | 180 |

CL1002 model limited to a maximum of 50°C in accordance with AS3498; no tempering valve required.  
 \* Maximum temperature setting of the product  
 \*\* The temperature rise should be added to the ambient incoming water temperature to determine what outlet temperature is possible.  
 Note: The above models are supplied with a 8L/m flow restrictor, 9L/m & 10L/m flow restrictors are available on request.



Optional wireless remote control Zip Part 99374.

## ZIP DSX SERVOTRONIC MPS® HIGH-TECH, HIGH PERFORMANCE HOT WATER

Our top of the range electronic instantaneous water heater offers stunning technology with an appealing design. The innovative Zip DSX is the perfect solution for multipoint applications and is particularly suited to high density residential developments.

Designed for easy installation the Zip DSX delivers hot water up to 50°C on demand, eliminating the energy and water inefficiencies associated with traditional storage water heaters and long pipe runs (dead legs). This all adds up to the most high tech, high performance multipoint hot water solutions available.

# ZIP DSX

### ZIP DSX SERVOTRONIC MPS® ELECTRONIC INSTANTANEOUS WATER HEATER

- Electronically controlled instantaneous water heater for single or multipoint applications
- Electronic power control adjusts to compensate for inlet pressure and temperature variations
- Servotronic™ control automatically regulates the water flow rate for optimum performance
- Bare wire technology IES® achieves maximum efficiency plus the fastest possible heat up time
- Electronic safety system with air bubble detection
- Multiple Power System MPS simplifies purchasing with the installer able to select their preferred power setting during installation
- No tempering valve required (models limited to 50°C in accordance with AS3498)
- 60°C model also available, suitable for installations which don't require temperature control or for use with a Zip HORNE Thermostatic Mixing Valve (TMV)
- No flue, ventilation or safe tray required
- Simple and quick installation, with 12.7mm BSP water connections and built in isolation valve
- 12 months commercial or 5 years residential warranty





**50°C**  
Delivers hot water not exceeding 50°C in accordance with AS3498



### INSPIRING: DSX-MUTIFUNCITONAL DISPLAY

#### Clear text display and coloured illumination

No confusing number codes, just operating statuses in clear text; the coloured backlighting seamlessly indicates the selected temperature from blue (cool) to lilac through to red (hot).

#### Energy monitor and clock

The energy monitor indicates clearly just how economic it is to operate the DSX. If you wish it will also display the time.

#### Detailed information

For the technically minded, it is also possible to display other operating statuses at the touch of a button, for example the cold water temperature, flow rate, power consumption and so forth.

| Model no.   | Power Rating @ 3Ph 400V | Switch On | Temperature rise** (°C) @ Flow rate |       |       |       |       |      |      |       |       |       |
|---|-------------------------|-----------|-------------------------------------|-------|-------|-------|-------|------|------|-------|-------|-------|
| <b>ZIP DSX PERFORMANCE</b>  |                         |           |                                     |       |       |       |       |      |      |       |       |       |
|   |                         | 2.5 L/m   | 3.0 L/M                             | 4 L/m | 5 L/m | 6 L/m | 7 L/m | 8L/m | 9L/m | 10L/m | 11L/m | 12L/m |
| CL1001  | 18kW                    | 50*       | →                                   |       | 50*   | 43    | 37    | 32   | 29   | 26    | 23    | 21    |
|   | 21kW                    | 50*       | →                                   |       |       | 50*   | 43    | 38   | 33   | 30    | 27    | 25    |
|   | 24kW                    | 50*       | →                                   |       |       | 50*   | 49    | 43   | 38   | 34    | 31    | 29    |
|   | 27kW                    | 50*       | →                                   |       |       |       | 50*   | 48   | 43   | 39    | 35    | 32    |
| Pressure Drop (kPa)   |                         | 20        | 25                                  | 35    | 45    | 50    | 75    | 95   | 130  | 140   | 165   | 195   |
| Model no.   | Power Rating @ 3Ph 400V | Switch On | Flow Rate                           |       |       |       |       |      |      |       |       |       |
|   |                         | 2.5 L/m   | 3.0 L/M                             | 4 L/m | 5 L/m | 6 L/m | 7 L/m | 8L/m | 9L/m | 10L/m | 11L/m | 12L/m |
| CL1509 (60°C)   | 18kW                    | 60*       | →                                   | 60*   | 51    | 43    | 37    | 32   | 29   | 26    | 23    | 21    |
|   | 21kW                    | 60*       | →                                   |       | 60*   | 50    | 43    | 38   | 33   | 30    | 27    | 25    |
|   | 24kW                    | 60*       | →                                   |       | 60*   | 57    | 49    | 43   | 38   | 34    | 31    | 29    |
|   | 27kW                    | 60*       | →                                   |       |       | 60*   | 55    | 48   | 43   | 39    | 35    | 32    |
| Pressure Drop (kPa)   |                         | 20        | 25                                  | 35    | 45    | 50    | 75    | 95   | 130  | 140   | 165   | 195   |
| CL1001 Limited to a maximum of 50°C in accordance with AS3498; no tempering valve required.   |                         |           |                                     |       |       |       |       |      |      |       |       |       |
| * Maximum temperature setting of the product  |                         |           |                                     |       |       |       |       |      |      |       |       |       |
| ** The temperature rise should be added to the ambient incoming water temperature to determine what outlet temperature is possible. |                         |           |                                     |       |       |       |       |      |      |       |       |       |
| Note: The flow maximum rate for the above models is electronically controlled to ensure the selected temperature is achieved.       |                         |           |                                     |       |       |       |       |      |      |       |       |       |



Optional wireless remote control Zip Part 99374.

## TUDOR POINT OF USE FOR CONVENIENT HOT WATER SOLUTIONS

A cost effective solution, the Zip Tudor is perfect for delivery of hot water to single point of use remote sinks or tubs. With a choice of over or under-sink configurations the Zip Tudor offers the choice of 5 or 10 litre capacity and does not require a safe tray.

# ZIP TUDOR

### THE ZIP TUDOR

- Full external temperature control ranging from 30°C to 80°C.
- Point of use – Single outlet
- 3 litre/minute flow rate, 6 Star WELS rated tapware (sold separately)
- Swivel arm open outlet spout (over sink models)
- Frost protection setting to protect the heater when not in use.
- Low density spiral heating element for rapid recovery and long life.
- External neon indicator light shows when element
- Simple installation
- 12 months warranty







Cube Mixer  
93866



Classic Mixer  
92258



Arc Mixer  
93816



Hero Mixer  
99051






Solo Mixer  
99075



| Type                                    | Single point open outlet (vented) water heater |                 |                 |                 |
|---|--|-----------------|-----------------|-----------------|
| <b>ZIP TUDOR</b>                        |  |                 |                 |                 |
| Model                                   | Under-sink                                     | Under-sink      | Over-sink       | Over-sink       |
| Part no.                                | 21052  | 21102           | 21051           | 21101           |
| Temp Settings                           | 30°C to 80°C                                   |                 |                 |                 |
| Capacity (Litre)                        | 5  | 10              | 5               | 10              |
| Electric supply                         | 1/Ph 230 V                                     |                 |                 |                 |
| Nominal power rating                    | 2.0 kW   |                 |                 |                 |
| Nominal current                         | 10A  |                 |                 |                 |
| Max. inlet temperature                  | 30°C   |                 |                 |                 |
| Working pressure                        | Min 50kPa - Max 350kPa                         |                 |                 |                 |
| Factory flow setting at 0.3MPa (300kPa) | 3lt/min  |                 |                 |                 |
| Water Connection (mm)                   | 12.7 BSP                                       |                 |                 |                 |
| Weight kg (empty)                       | 3.5  | 4               | 3.5             | 4               |
| Weight kg (when filled w. water)        | 8.5  | 14              | 8.5             | 14              |
| W x D x H (mm)                          | 310 x 265 x 455                                | 255 x 215 x 390 | 310 x 265 x 455 | 255 x 215 x 390 |
| IP Rating                               | IP25   | IP25            | IP25            | IP25            |
| W x D x H (mm)                          | 310 x 265 x 455                                | 255 x 215 x 390 | 310 x 265 x 455 | 255 x 215 x 390 |



# DECENTRALISED HOT WATER ON DEMAND

|                            |  Flow rate |  Duration of use |  Temperature at point of use |
|----------------------------|---|---|---|
| Handwash basin in toilet   | 2 l/min   | 10 seconds  | 35°C  |
| Handwash basin in bathroom | 4 l/min   | 1 minute  | 40°C  |
| Shower / bathroom          | 8 l/min   | 5 minutes   | 38°C  |
| Bath / bathroom            | 10 l/min  | 12 minutes  | 40°C  |
| Kitchen sink               | 5 l/min   | 2 minutes   | 48°C  |

Comparison of actual usage and temperature at the individual points of use.

Decentralised electronic instantaneous water heaters only heat the amount of water actually required, to the desired temperature for that point of use. The temperature can be selected by the user either on the heater display or by wireless remote control.

The smart electronic control detects the water flow rate and automatically adjusts the energy input whilst also compensating for fluctuations of inlet temperature and flow rate, always ensuring accurate delivery of the pre-selected outlet temperature.

By choosing to use decentralised electronic instantaneous water heaters you eliminate the inefficiencies associated with traditional large storage water heaters and the water wastage associated with long pipe runs or “dead legs”.

## THE SCIENCE BEHIND INSTANTANEOUS HOT WATER HEATERS

### How much Hot water do you require?

If you want to achieve a 9 L/min flow rate at 40°C for a shower, you will require 6 L/min of hot water at 50°C plus 3 L/min of cold water at 20°C .

### Instantaneous water heaters create hot water on demand.

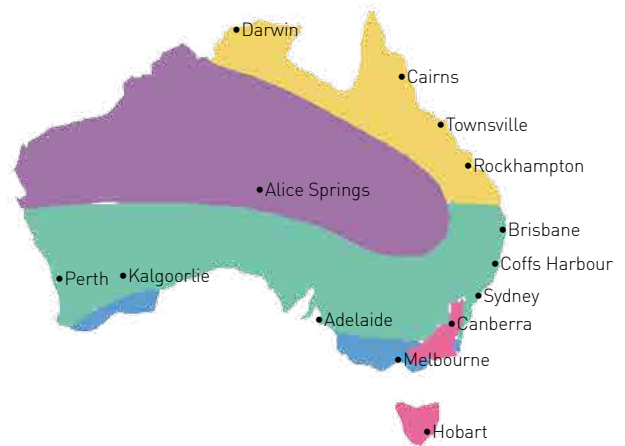
You need a proportional amount of energy (kW) to heat water at the flow rate (Lt/Min) required for your application. The formulas below will help you determine the correct power rating, based on your required flow rate and the outlet temperature you require.

$$\text{Flow Rate (Lt/Min)} = \frac{\text{kW rating} \times 14.3}{\text{Rise in temp } ^\circ\text{C} (\text{Th} - \text{Tc})}$$

$$\text{Rise in Temp } (^\circ\text{C}) (\text{Th}-\text{Tc}) = \frac{\text{kW rating} \times 14.3}{\text{Flow rate (Lt/Min)}}$$

$$\text{kW Rating} = \frac{\text{Flow Rate (Lt/Min)} \times \text{rise in temp } (\text{Th} - \text{Tc})}{14.3}$$

## AVERAGE AMBIENT WATER TEMPERATURE



| Average ambient water temperature |        |        |        |        |
|-----------------------------------|--------|--------|--------|--------|
| Zone 1                            | Zone 2 | Zone 3 | Zone 4 | Zone 5 |
| 24                                | 20     | 17     | 14     | ≤14    |

### Formula Guide

14.3= Constant value of Water

kW rating= Power supply (available or required)

Th= Required Hot water Temperature

Tc= Actual ambient (cold) water Temperature

Tm = Mixed Temperature

HV = Hot Volume

MV = Mixed volume

### Optional Flow restrictors

Flow Restrictors

- 99447 – Kit flow Restrictor 7L/min for CEX
- 99448 – Kit flow Restrictor 9L/min for DEX
- 99449 – Kit flow Restrictor 10L/min for DEX

### Selection Key



Hand wash basin



Bath tub



Shower






















































Cleaners sink



Kitchen sink

# PRODUCT SELECTION CHART

| Product Information   |   |                                     |                              | Select one column only  |  |  |  |  |   |   |                      |
|---|---|-------------------------------------|------------------------------|---|--|--|--|--|---|---|----------------------|
| Zip Water Heaters   | Model Number & Type   | Electrical Loading                  | Temperature Range            | Hand-wash Basin   | Shower   | Bathtub  | Kitchen Sink   | Cleaners Sink  | Studio Apartment  | 1 Bathroom Apartment  | 2 Bathroom Apartment |
|    | MXC 3 CL1502<br>MCX 4 CL1503<br>MCX 6 CL1504                  | 3.5kW<br>4.4kW<br>5.7kW             | 35, 38 & 45°C                |    |  |  |  |  |   |   |                      |
|    | CEX9 CL1505 (over-bench)<br>CEX9-U CL1506 (under-bench)       | MPS<br>6.6kW<br>8.8kW               | 20°C to 50°C                 | <br>  |   |  |   |  |   |   |                      |
|    | CEX-U CL1505 (Under-bench)<br>CEX-U CL1506 (60°C under-bench) | MPS<br>11kW<br>13.5kW               | 20°C to 50°C<br>20°C to 60°C | <br>  |   |  |   |   | <br><br>       |   |                      |
|   | DEX CL1002<br>DEX CL1508 (60°C)                               | MPS<br>18kW<br>21kW<br>24kW<br>27kW | 20°C to 50°C<br>20°C to 60°C | <br><br>  | <br>  |   | <br>  | <br>  | <br><br>  | <br><br><br>   |                      |
|  | DSX CL1001<br>DSX CL1509 (60°C)                               | MPS<br>18kW<br>21kW<br>24kW<br>27kW | 20°C to 50°C<br>20°C to 60°C | <br><br> | <br> | <br> | <br> | <br> | <br><br> | <br><br><br><br> |                      |
|  | Tudor 21052 (5L under-sink)*<br>Tudor 21102 (10L under-sink)* | 2kW<br>2kW                          | 30°C to 80°C                 |   |  |  |   |   |   |   |                      |
|  | Tudor 21051 (5L over-sink)<br>Tudor 21101 (10L over-sink)     | 2kW<br>2kW                          | 30°C to 80°C                 |   |  |  |   |   |   |   |                      |

The above product selection chart is intended as a guide only, individual circumstances and site conditions may vary. Automatic product selection is no substitute for planning by an expert, please consult with your local Zip representative to ensure the product you have chosen is suitable for its intended application.

## Warranty

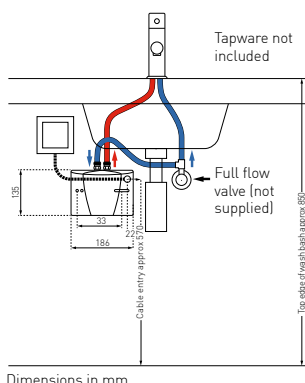
All Zip Instantaneous Hot Water products are covered by a 5 year warranty when used in residential applications, or 12 months in commercial applications. Zip Tudor has a 12 month warranty. For further details visit <https://www.zipwater.com/support/warranty-policy>

| Zip IHW Model            | Zip IHW MCX3   | Zip IHW MCX4       | Zip IHW MCX6       | Zip IHW CEX9      | Zip IHW CEX9-U    |
|--------------------------|--|--------------------|--------------------|-------------------|-------------------|
| Zip Order Code           | CL1502   | CL1503             | CL1504             | CL1505            | CL1506            |
| Temp Settings            | 35°C, 38°C or 45°C   | 35°C, 38°C or 45°C | 35°C, 38°C or 45°C | 20°C to 50°C      | 20°C to 50°C      |
| Nominal Capacity         | 0.2 litre  | 0.2 litre          | 0.2 litre          | 0.3 litre         | 0.3 litre         |
| Static Pressure (max)    | 1000 kPa   | 1000 kPa           | 1000 kPa           | 1000 kPa          | 1000 kPa          |
| Flow Rate (min)          | 1.2 litres/minute  | 1.5 litres/minute  | 1.5 litres/minute  | 2.0 litres/minute | 2.0 litres/minute |
| Flow Rate (max)*         | 2.0 litres/minute  | 2.5 litres/minute  | 3.3 litres/minute  | 5.0 litres/minute | 5.0 litres/minute |
| Power Rating             | 3.5 kW   | 4.4 kW             | 5.7 kW             | 6.6 kW or 8.8 kW  | 6.6 kW or 8.8 kW  |
| Rated Current            | 15 A   | 19 A               | 25 A               | 29 A or 38A       | 29 A or 38A       |
| Supply Voltage           | Single Phase 230 V   |                    |                    |                   |                   |
| Min. Required Cable Size | The cross sectional area of the connection cable must be in accordance with the power rating of the appliance and the specific requirements of AS/NZS 3000 |                    |                    |                   |                   |
| Heating System           | Bare wire heating system IES®  |                    |                    |                   |                   |
| Water Resistance (min)** | 1100 ohm/cm  | 800 ohm/cm         | 800 ohm/cm         | 1100 ohm/cm       | 1100 ohm/cm       |
| Max. Inlet Temperature   | 60°C   | 60°C               | 60°C               | 70°C              | 70°C              |
| Water Connection         | 12.5 BSP   | 12.5 BSP           | 12.5 BSP           | 12.5 BSP          | 12.5 BSP          |
| IP Rating                | IP25   | IP25               | IP25               | IP25              | IP25              |
| W x D x H (mm)           | 186 x 87 x 135   | 186 x 87 x 135     | 186 x 87 x 135     | 177 x 108 x 294   | 177 x 108 x 294   |

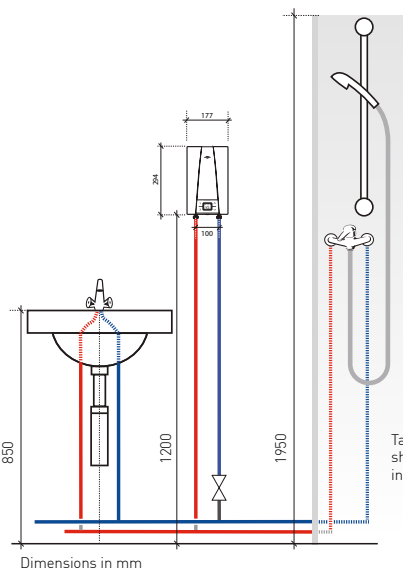
| Zip IHW Model            | Zip IHW CEX-U  | Zip IHW CEX-U (60°C) | Zip IHW DEX       | Zip IHW DEX (60°C) | Zip IHW DSX                           | Zip IHW DSX (60°C) |
|--------------------------|--|----------------------|-------------------|--------------------|---------------------------------------|--------------------|
| Zip Order Code           | CL1003   | CL1507               | CL1002            | CL1508             | CL1001                                | CL1509             |
| Temp Settings            | 20°C to 50°C   | 20°C to 60°C         | 20°C to 50°C      | 20°C to 60°C       | 20°C to 50°C                          | 20°C to 60°C       |
| Nominal Capacity         | 0.3 litre  | 0.3 litre            | 0.4 litre         | 0.4 litre          | 0.4 litre                             | 0.4 litre          |
| Static Pressure (max)    | 1000 kPa   | 1000 kPa             | 1000 kPa          | 1000 kPa           | 1000 kPa                              | 1000 kPa           |
| Flow Rate (min)          | 2.0 litres/minute  | 2.0 litres/minute    | 2.5 litres/minute | 2.5 litres/minute  | 2.5 litres/minute                     | 2.5 litres/minute  |
| Flow Rate (max)*         | 5.0 litres/minute  | 5.0 litres/minute    | 8.0 litres/minute | 8.0 litres/minute  | SERVOTRONIC® automatically controlled |                    |
| Power Rating             | 11.0 kW or 13.5 kW   | 11.0 kW or 13.5 kW   | 18, 21, 24, 27 kW | 18, 21, 24, 27 kW  | 18, 21, 24, 27 kW                     | 18, 21, 24, 27 kW  |
| Rated Current            | 16.0 A or 19.5 A   | 16.0 A or 19.5 A     | 26, 30, 35, 39A   | 26, 30, 35, 39A    | 26, 30, 35, 39A                       | 26, 30, 35, 39A    |
| Supply Voltage           | 3 Phase 400 V  |                      |                   |                    |                                       |                    |
| Min. Required Cable Size | The cross sectional area of the connection cable must be in accordance with the power rating of the appliance and the specific requirements of AS/NZS 3000 |                      |                   |                    |                                       |                    |
| Heating System           | Bare wire heating system IES®  |                      |                   |                    |                                       |                    |
| Water Resistance (min)** | 1000 ohm/cm  | 1000 ohm/cm          | 1100 ohm/cm       | 1100 ohm/cm        | 1100 ohm/cm                           | 1100 ohm/cm        |
| Max. Inlet Temperature   | 70°C   | 70°C                 | 70°C              | 70°C               | 70°C                                  | 70°C               |
| Water Connection         | 12.5 BSP   | 12.5 BSP             | 12.5 BSP          | 12.5 BSP           | 12.5 BSP                              | 12.5 BSP           |
| IP Rating                | IP25   | IP25                 | IP25              | IP25               | IP25                                  | IP25               |
| W x D x H (mm)           | 177 x 108 x 294  | 177 x 108 x 294      | 231 x 97 x 466    | 231 x 97 x 466     | 231 x 97 x 466                        | 231 x 97 x 466     |

\* Flow rate automatically controlled to achieve optimum temperature rise

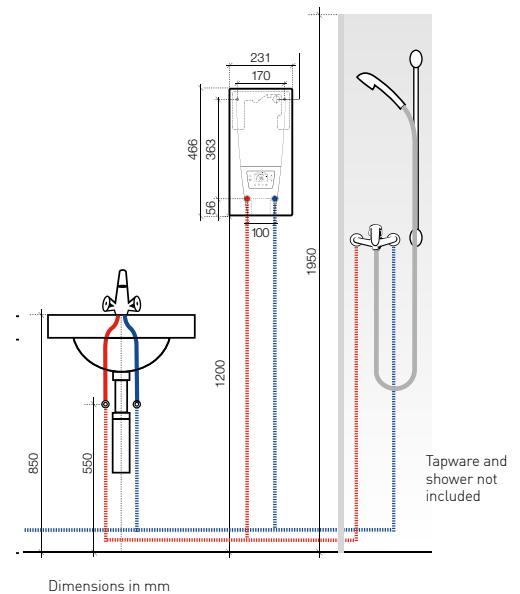
\*\* Permissible minimum electrical resistance of water at 15°C



**ZIP MCX**



**ZIP CEX**



**ZIP DEX / DSX**



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