

Zip Hot Water Typical applications

Application (Up to)	Suggested Zip Products	Page reference
Single hand wash	ES3, ES4, ES6	68
1 basin	AP3/05, AP3/05/OB	78
	P4/52, P4/52UB	92
	C2/50	94
	ILX006	72
	CEX	74
1 sink	P4/102, P4/102UB	92
	C2/100	94
	VP103, VP103UB	80
	AP3/10, AP3/10/OB	78
	ILX009	72
	CEX	74
2 basins	VP103, VP103UB	80
	AP3/10, AP3/10/OB	78
	ILX009	72
	CEX	74
3 basins	VP153, VP153UB	80
	AP3/15, AP3/15/OB	78
1 basin, 2 sinks	RCH25	96
3 basins, heavy use or 2 sinks	VP303	88
	AP3/30	84
	DEX	76
5 basins, heavy use or 3 sinks	VP503	88
	AP3/50	84
	RCH50	96
1 shower	ILX012	72
	DEX	76
1 bath & shower	VP803	88
	AP3/80	84
	RCH75	96
	DEX	76
Bed-sit	AF3120, AF4090	88
	VP953	86
	AP3/100	84
	RCH100	96
	DEX/DBX	76
1 bath & shower (1-2 beds)	AF3150, AF4120	88
	DEX	76
1 bath & shower (3 beds)	AF3180, AF4150	88
1 bath & shower (4 beds)	AF3210, AF4180	88
2 bath & shower (5 beds)	AF3250, AF4210	88
3 bath & shower (6 beds)	AF3300, AF4250	88

Zip Hot Water General Data

Useful formulae

$$\text{Time to heat stored water (mins)} = \frac{\text{Litres} \times \text{Temp Rise (}^\circ\text{C)}}{\text{KW rating} \times 14.3}$$

$$\text{Temperature rise with an instantaneous water heater (}^\circ\text{C)} = \frac{14.3 \times \text{KW rating}}{\text{Litres/min flow}}$$

$$\begin{aligned} \text{Temperature Degrees Celsius} &= (\text{F}-32) \times \frac{5}{9} \\ \text{Degrees Fahrenheit} &= (\text{C} \times \frac{9}{5}) + 32 \\ \text{Degrees Kelvin} &= (\text{C} + 273.2) \end{aligned}$$

Conversion factors

$$\begin{aligned} \text{Pressure } 1 \text{ Bar} &= 14.5 \text{ psi} \\ &= 100 \text{ kiloNewtons/m}^2 = 100 \text{ kPa} \\ 1 \text{ psi} &= 7 \text{ kPa} \end{aligned}$$

Heat 1 kiloCalorie (kCal) is the amount of energy required to raise 1 kg of water through one degree Celsius

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