

**THERMANN™**

# COMMERCIAL GUIDE

GAS CONTINUOUS FLOW WATER HEATERS  
FOR COMMERCIAL & HIGH USE PROJECTS



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# BREAKING NEW GROUND IN COMMERCIAL WATER HEATING

We are dedicated to highest quality, great design and innovation, offering a comprehensive range of continuous flow solutions to suit most commercial projects.

The THERMANN Commercial range has been especially developed and designed for commercial applications by incorporating larger more robust heat exchangers.

Whether it is an apartment, hotel, office block or restaurant, THERMANN Commercial has a water heating system to meet your project requirement.

Our range has the ability to link together from 2 up to 24 units and

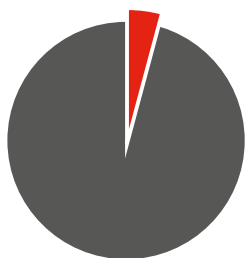
the capacity to meet hot water flow rates of as low as 2.5L/min up to a massive 1,200L/min.

With safety, durability, and reliability our water heaters are the ultimate commercial solution.

## ROBUST COMMERCIAL DESIGN

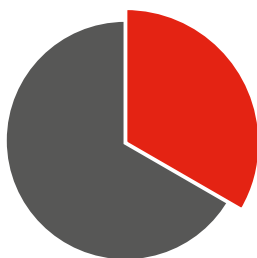
The THERMANN Commercial range is designed for commercial applications which have greater daily water usage.

### 1 HOUR A DAY



DOMESTIC USE

### 8 HOURS A DAY



COMMERCIAL USE

High grade commercial components such as heat exchangers with 25% thicker pipes and 20% thicker fins to allow the THERMANN Commercial range to meet the higher water use and flow rates required for commercial applications. For greater water flow and lower pressure loss, THERMANN Commercial uses up to 50% larger pipes compared to those used in domestic applications.



DOMESTIC HEAT EXCHANGER

THERMANN 28L & 32L COMMERCIAL HEAT EXCHANGER

THERMANN 50L COMMERCIAL HEAT EXCHANGER

## INTELLIGENT MANIFOLD SYSTEMS

THERMANN Commercial continuous flow water heaters can be linked to meet any size load from 2.5L/min to 1,200L/min. By linking units together the intelligent manifold system provides the ability to cascade allowing small to large flow rates. It can rotate units to equalize the usage of each water heater providing longer life. Manifold systems also provide redundancy, continuing to provide hot water even if one of the units stop working.

## EFFICIENCY

Energy costs are reduced with up to 96.4% thermal efficiency on the 32L & 50L condensing models. Modulating and cascading the individual water heaters reduces the number of units on at any time, thus improving plant efficiency and reducing energy consumption - saving on total water heating running costs.

## VERSATILE INSTALLATION

The THERMANN Commercial range has models for both indoor and outdoor applications. Complete manifold systems in wall mount or floor standing options are available, which reduce installation time. This modular design also allows individual water heaters and components to be transported with ease to buildings and where access may be difficult. There is also the option to order popular manifold arrangements with or without water heaters installed on the manifold frame.

## WARRANTY

All THERMANN Commercial continuous flow products have a 5 year warranty on the heat exchanger and a 2 year warranty on heater parts and labour. When used in a domestic situation, a 12 year warranty on the heat exchanger and a 3 year warranty on heater parts and labour, applies.

### Commercial



Heat Exchanger



Parts and Labour

### Domestic



Heat Exchanger



Parts and Labour

# THE BEST RANGE FOR COMMERCIAL HOT WATER

## THERMANN COMMERCIAL CONDENSING 50L & 32L

32L INDOOR



50L OUTDOOR



32L OUTDOOR



The Thermann 50L commercial water heater is the largest capacity continuous flow water heater available in the Australian market. It is specially designed for applications that demand extra delivery of hot water with a smaller footprint. This product is exclusive to Thermann.

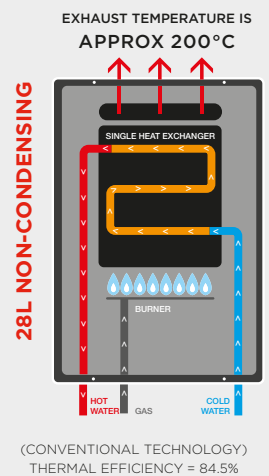
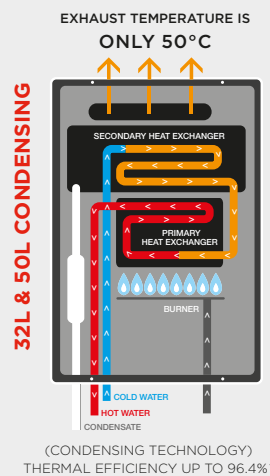
### CONDENSING MODELS

- ▶ Available in a range of capacities: 32L/min (indoor & outdoor) and 50L/min (outdoor only).
- ▶ The Thermann 50L model delivers savings - less time to install, less materials used and less space consumed.
- ▶ Condensing technology delivers up to 96.4%\* heating efficiency providing running cost savings.
- ▶ Designed for commercial applications using robust heat exchangers with thicker pipes and fins.
- ▶ Modular design enabling up to 24 units to be linked together providing flow rates as low as 2.5L/min up to 1,200L/min.
- ▶ Low NOx burner provides improved emissions and air quality.
- ▶ Commercial grade components throughout with a durable silver finish.
- ▶ Indoor room sealed models available with horizontal or vertical discharge and open flue options.

## CONDENSING IS THE FUTURE OF CONTINUOUS FLOW

In a condensing continuous flow water heater, the water is preheated using the heat from the exhaust gas, reducing wasted energy and lowering the exhaust temperature.

In a non-condensing unit, the water only passes through one heat exchanger and the energy from the exhaust gas is wasted.



## THERMANN COMMERCIAL NON-CONDENSING 28L

28L INDOOR



28L OUTDOOR



### NON-CONDENSING MODELS

- ▶ Designed for commercial applications using robust heat exchangers with thicker pipes and fins.
- ▶ Modular design enabling up to 24 units to be linked together providing flow rates as low as 2.5L/min up to 672L/min.
- ▶ The low NOx burner provides improved emissions and air quality.
- ▶ Indoor and outdoor models available.
- ▶ Slim 350mm width design enabling replacement of existing units.
- ▶ Commercial grade components throughout with a durable silver finish.
- ▶ Indoor room sealed models available with horizontal or vertical discharge and open flue options.

# INDOOR & OUTDOOR SPECIFICATIONS

| MODEL                        |                  | 50L Outdoor                        | 32L Outdoor                        | 32L Indoor                         | 28L Outdoor                        | 28L Indoor                         |
|------------------------------|------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Product Codes                |                  | 50L Outdoor NG - 1307010           | 32L Outdoor NG - 9507241           | 32L Internal NG - 9507243          | 28L Outdoor NG - 9507237           | 28L Internal NG - 9507239          |
|                              |                  | 50L Outdoor LPG - 1307011          | 32L Outdoor LPG - 9507242          | 32L Internal LPG - 9507244         | 28L Outdoor LPG - 9507238          | 28L Internal LPG - 9507240         |
| Capacity L/min @ 25°C rise   |                  | 50                                 | 32                                 | 32                                 | 28                                 | 28                                 |
| Location                     |                  | Outdoor                            | Outdoor                            | Indoor                             | Outdoor                            | Indoor                             |
| Thermal Efficiency^ %        |                  | 95                                 | 96.4                               | 96.4                               | 84.5                               | 84.5                               |
| Water Pressure (kPa)         |                  | 200 -800                           | 200 -1,000                         | 200 -1,000                         | 200 -1,000                         | 200 -1,000                         |
| Minimum Flow Rate (L/min)    |                  | 2.5                                | 2.5                                | 2.5                                | 2.5                                | 2.5                                |
| Dimensions H X W X D (mm)    |                  | 830 x 480 x 370                    | 615 X 464 X 240                    | 615 X 464 X 240                    | 600 X 350 X 240                    | 600 X 350 X 280                    |
| Weight (kg)                  |                  | 50                                 | 32                                 | 32                                 | 26                                 | 26                                 |
| Connection Sizes             | Water Inlet      | R1 (25mm)                          | R 3/4 (20mm)                       | R 3/4 (20mm)                       | R 3/4 (20mm)                       | R 3/4 (20mm)                       |
|                              | Hot Water Outlet | R1 (25mm)                          | R 3/4 (20mm)                       | R 3/4 (20mm)                       | R 3/4 (20mm)                       | R 3/4 (20mm)                       |
|                              | Gas Inlet        | R 3/4 (20mm)                       | R 3/4 (20mm)                       | R 3/4 (20mm)                       | R 3/4 (20mm)                       | R 3/4 (20mm)                       |
|                              | Drain Line       | R 1/2 (15mm)                       | R 1/2 (15mm)                       | R 1/2 (15mm)                       | NA                                 | NA                                 |
| Power Supply                 | Supply           | 230 - 240 VAC (50Hz)               | 230 - 240 VAC (50Hz)               | 230 - 240 VAC (50Hz)               | 230 - 240 VAC (50Hz)               | 230 - 240 VAC (50Hz)               |
|                              | Consumption (W)  | Operation 83 Freeze Prevention 288 | Operation 75 Freeze Prevention 223 | Operation 75 Freeze Prevention 223 | Operation 75 Freeze Prevention 193 | Operation 75 Freeze Prevention 193 |
| Gas Consumption              | NG (MJ/hr)       | 328                                | 217                                | 217                                | 220                                | 205                                |
|                              | ULPG (MJ/hr)     | 328                                | 217                                | 217                                | 220                                | 205                                |
| Gas Pressure                 | NG (kPa)         | 1.13 - 3.00                        | 1.13 - 3.00                        | 1.13 - 3.00                        | 1.13 - 3.00                        | 1.13 - 3.00                        |
|                              | ULPG (kPa)       | 2.75 - 3.50                        | 2.75 - 3.50                        | 2.75 - 3.50                        | 2.75 - 3.50                        | 2.75 - 3.50                        |
| Temperature Range pre-set 60 | Dipswitch        | 55, 60, 75, 85                     | 55, 60, 75, 85                     | 55, 60, 75, 85                     | 55, 60, 75, 85                     | 55, 60, 75, 85                     |
|                              | Controller       | 37 - 85                            | 37 - 85                            | 37 - 85                            | 37 - 85                            | 37 - 85                            |

^ Thermal efficiency as tested with 15°C inlet water temperature and 60°C hot water outlet temperature at maximum burn capacity.

## PERFORMANCE DATA

| MODEL           |           | 50L Outdoor | 32L Outdoor | 32L Indoor | 28L Outdoor | 28L Indoor |
|-----------------|-----------|-------------|-------------|------------|-------------|------------|
| FLOW RATE L/min | Max       | 50          | 42          | 42         | 37          | 37         |
|                 | 20°C rise | 50          | 40          | 40         | 35          | 35         |
|                 | 25°C rise | 50          | 32          | 32         | 28          | 28         |
|                 | 35°C rise | 36          | 23          | 23         | 20          | 20         |
|                 | 50°C rise | 25          | 16          | 16         | 14          | 14         |
|                 | 60°C rise | 21          | 13          | 13         | 12          | 12         |
|                 | 70°C rise | 18          | 11          | 11         | 10          | 10         |

# OUR INTELLIGENT MANIFOLD SYSTEM

The THERMANN Commercial intelligent manifold system is suitable for any project where you need capacity, efficiency and control.

## INTELLIGENT MANIFOLD SYSTEM

The ability to modulate multiple units with the use of a system controller makes THERMANN Commercial water heaters efficient and intelligent.

## CASCADING

Up to 24 THERMANN Commercial units can be linked together with a single system controller. This allows variable outputs from 2.5L/min up to 1,200L/min to match the load requirement.

## ROTATION

In a manifold system, the individual THERMANN Commercial units will communicate with one another and work in unison to even out the load on between the units, maximising output and system life.

## BMS

The system controller can be set up to deliver signals to external BMS systems.

## STORAGE OPTIONS

Manifold systems are designed to be used with or without storage tanks. The design is also suitable for systems with or without flow and return piping systems.

## INTELLIGENT SYSTEM FEATURES

Additional product features provided by the intelligent system controller.

Self diagnostics for both system controller and all individual units connected to the system controller. Additional features of the controller include:

- Can control tank circulation pump
- Tank thermostats can be connected
- An external alarm can be connected
- Should a unit stop working, the system controller will continue to manage the load through the other working unit.

## EASE OF INSTALLATION

The modular manifold system is designed to fit into building lifts and easy to disassemble or reassemble on-site if required.

## CHOICE

In addition to factory mounted configurations, there is also the option of ordering select 1, 2 & 3 manifold models with site mounted continuous flow water heaters.

Frames (including pre-fitted manifold pipework and flexible hoses), water heaters, and an accessory box are shipped to site separately, and assembled onsite. This is perfect for retrofit applications, where site limitations are known and a speedy solution is required.

## CASCADING FUNCTION



The heater will turn on when the flow is sensed.



1 heater will work solely until the demand grows greater than 60%.



The load will equalize among 2 or more heaters to meet high volume demand.

## ROTATION FUNCTION



# OUR INTELLIGENT MANIFOLD SYSTEM

|            |          | Climate                   | Warm                      |     |     |     | Moderate                  |     |     |     | Alpine/Cold               |     |     |     |
|------------|----------|---------------------------|---------------------------|-----|-----|-----|---------------------------|-----|-----|-----|---------------------------|-----|-----|-----|
|            |          | Cold water inlet          | 20°C                      |     |     |     | 15°C                      |     |     |     | 10°C                      |     |     |     |
| MODEL      |          | Hot water set             | 40C                       | 60C | 75C | 85C | 40C                       | 60C | 75C | 85C | 40C                       | 60C | 75C | 85C |
|            | Unit Qty | Minimum flow rate (L/min) | Maximum flow rate (L/min) |     |     |     | Maximum flow rate (L/min) |     |     |     | Maximum flow rate (L/min) |     |     |     |
| 50L Models |          |                           |                           |     |     |     |                           |     |     |     |                           |     |     |     |
| 50L        | 1        | 2.5                       | 50                        | 31  | 23  | 19  | 50                        | 28  | 21  | 18  | 42                        | 25  | 19  | 17  |
| T25000     | 2        | 2.5                       | 100                       | 63  | 45  | 38  | 100                       | 56  | 42  | 36  | 83                        | 50  | 38  | 33  |
| T35000     | 3        | 2.5                       | 150                       | 94  | 68  | 58  | 150                       | 83  | 63  | 54  | 125                       | 75  | 58  | 50  |
| T45000     | 4        | 2.5                       | 200                       | 125 | 91  | 77  | 200                       | 111 | 83  | 71  | 167                       | 100 | 77  | 67  |
| T55000     | 5        | 2.5                       | 250                       | 156 | 114 | 96  | 250                       | 139 | 104 | 89  | 208                       | 125 | 96  | 83  |
| T65000     | 6        | 2.5                       | 300                       | 188 | 136 | 115 | 300                       | 167 | 125 | 107 | 250                       | 150 | 115 | 100 |
| T85000     | 8        | 2.5                       | 400                       | 250 | 182 | 154 | 400                       | 222 | 167 | 143 | 333                       | 200 | 154 | 133 |
| T105000    | 10       | 2.5                       | 500                       | 313 | 227 | 192 | 500                       | 278 | 208 | 179 | 417                       | 250 | 192 | 167 |
| T125000    | 12       | 2.5                       | 600                       | 375 | 273 | 231 | 600                       | 333 | 250 | 214 | 500                       | 300 | 231 | 200 |
| 32L Models |          |                           |                           |     |     |     |                           |     |     |     |                           |     |     |     |
| 32L        | 1        | 2.5                       | 40                        | 20  | 15  | 12  | 32                        | 18  | 13  | 11  | 27                        | 16  | 12  | 11  |
| T23200     | 2        | 2.5                       | 80                        | 40  | 29  | 25  | 64                        | 36  | 27  | 23  | 53                        | 32  | 25  | 21  |
| T33200     | 3        | 2.5                       | 120                       | 60  | 44  | 37  | 96                        | 53  | 40  | 34  | 80                        | 48  | 37  | 32  |
| T43200     | 4        | 2.5                       | 160                       | 80  | 58  | 49  | 128                       | 71  | 53  | 46  | 107                       | 64  | 49  | 43  |
| T53200     | 5        | 2.5                       | 200                       | 100 | 73  | 62  | 160                       | 89  | 67  | 57  | 133                       | 80  | 62  | 53  |
| T63200     | 6        | 2.5                       | 240                       | 120 | 87  | 74  | 192                       | 107 | 80  | 69  | 160                       | 96  | 74  | 64  |
| T83200     | 8        | 2.5                       | 320                       | 160 | 116 | 98  | 256                       | 142 | 107 | 91  | 213                       | 128 | 98  | 85  |
| T103200    | 10       | 2.5                       | 400                       | 200 | 145 | 123 | 320                       | 178 | 133 | 114 | 267                       | 160 | 123 | 107 |
| T123200    | 12       | 2.5                       | 480                       | 240 | 175 | 148 | 384                       | 213 | 160 | 137 | 320                       | 192 | 148 | 128 |
| 28L Models |          |                           |                           |     |     |     |                           |     |     |     |                           |     |     |     |
| 28L        | 1        | 2.5                       | 35                        | 18  | 13  | 11  | 28                        | 16  | 12  | 10  | 23                        | 14  | 11  | 9   |
| T22800     | 2        | 2.5                       | 70                        | 35  | 25  | 22  | 56                        | 31  | 23  | 20  | 47                        | 28  | 22  | 19  |
| T32800     | 3        | 2.5                       | 105                       | 53  | 38  | 32  | 84                        | 47  | 35  | 30  | 70                        | 42  | 32  | 28  |
| T42800     | 4        | 2.5                       | 140                       | 70  | 51  | 43  | 112                       | 62  | 47  | 40  | 93                        | 56  | 43  | 37  |
| T52800     | 5        | 2.5                       | 175                       | 88  | 64  | 54  | 140                       | 78  | 58  | 50  | 117                       | 70  | 54  | 47  |
| T62800     | 6        | 2.5                       | 210                       | 105 | 76  | 65  | 168                       | 93  | 70  | 60  | 140                       | 84  | 65  | 56  |
| T82800     | 8        | 2.5                       | 280                       | 140 | 102 | 86  | 224                       | 124 | 93  | 80  | 187                       | 112 | 86  | 75  |
| T102800    | 10       | 2.5                       | 350                       | 175 | 127 | 108 | 280                       | 156 | 117 | 100 | 233                       | 140 | 108 | 93  |
| T122800    | 12       | 2.5                       | 420                       | 210 | 153 | 129 | 336                       | 187 | 140 | 120 | 280                       | 168 | 129 | 112 |

T22800 + (F or E) + (N or L ) + (W, F or B) + (K)\*  
(Flue or External) + (Natural or ULPG) + (Wall, Floor or Back to Back) + (Kit)\*  
\*Indicates that the system can be ordered in kit form. All kits come with feet to enable wall or floor mounting.  
Not available in Back to Back configurations.

# TANK MANIFOLD SYSTEM WITH STORAGE TANK

- ▶ Tank manifold systems are ideal when large flow rate are required. The 28L, 32L and 50L models can be utilized in a tank manifold system.
- ▶ The tank manifold systems come standard with 28L, 32L or 50L continuous flow water heaters, a THERMANN Commercial storage tank, tank circulating pump and a controlling thermostat.
- ▶ For example, a manifold pack of 12 x 32L units can provide up to 23,840L at a 50°C rise over a 2 hour peak.

| MODEL             |          |                  |             | PEAK LENGTH (L/hr) |       |       |        |
|-------------------|----------|------------------|-------------|--------------------|-------|-------|--------|
| MODEL NUMBER      | UNIT QTY | L/hr @ 50°C RISE | STORAGE (L) | 1hr                | 2hr   | 3hr   | 6hr    |
| <b>50L Models</b> |          |                  |             |                    |       |       |        |
| T15014            | 1        | 1500             | 400         | 1900               | 3400  | 4900  | 9400   |
| T25014            | 2        | 3000             | 400         | 3400               | 6400  | 9400  | 18400  |
| T35014            | 3        | 4500             | 400         | 4900               | 9400  | 13900 | 27400  |
| T45024            | 4        | 6000             | 800         | 6800               | 12800 | 18800 | 36800  |
| T55024            | 5        | 7500             | 800         | 8300               | 15800 | 23300 | 45800  |
| T65034            | 6        | 9000             | 1200        | 10200              | 19200 | 28200 | 55200  |
| T85034            | 8        | 12000            | 1200        | 13200              | 25200 | 37200 | 73200  |
| T105044           | 10       | 15000            | 1600        | 16600              | 31600 | 46600 | 91600  |
| T125044           | 12       | 18000            | 1600        | 19600              | 37600 | 55600 | 109600 |
| <b>32L Models</b> |          |                  |             |                    |       |       |        |
| T13213            | 1        | 960              | 315         | 1275               | 2235  | 3195  | 6075   |
| T23213            | 2        | 1920             | 315         | 2235               | 4155  | 6075  | 11835  |
| T33213            | 3        | 2880             | 315         | 3195               | 6075  | 8955  | 17595  |
| T43213            | 4        | 3840             | 315         | 4155               | 7995  | 11835 | 23355  |
| T53214            | 5        | 4800             | 400         | 5200               | 10000 | 14800 | 29200  |
| T63214            | 6        | 5760             | 400         | 6160               | 11920 | 17680 | 34960  |
| T83223            | 8        | 7680             | 630         | 8310               | 15990 | 23670 | 46710  |
| T103224           | 10       | 9600             | 800         | 10400              | 20000 | 29600 | 58400  |
| T123224           | 12       | 11520            | 800         | 12320              | 23840 | 35360 | 69920  |
| <b>28L Models</b> |          |                  |             |                    |       |       |        |
| T12813            | 1        | 840              | 315         | 1155               | 1995  | 2835  | 5355   |
| T22813            | 2        | 1680             | 315         | 1995               | 3675  | 5355  | 10395  |
| T32813            | 3        | 2520             | 315         | 2835               | 5355  | 7875  | 15435  |
| T42813            | 4        | 3360             | 315         | 3675               | 7035  | 10395 | 20475  |
| T52813            | 5        | 4200             | 315         | 4515               | 8715  | 12915 | 25515  |
| T62814            | 6        | 5040             | 400         | 5440               | 10480 | 15520 | 30640  |
| T82823            | 8        | 6720             | 630         | 7350               | 14070 | 20790 | 40950  |
| T102823           | 10       | 8400             | 630         | 9030               | 17430 | 25830 | 51030  |
| T122824           | 12       | 10080            | 800         | 10880              | 20960 | 31040 | 61280  |

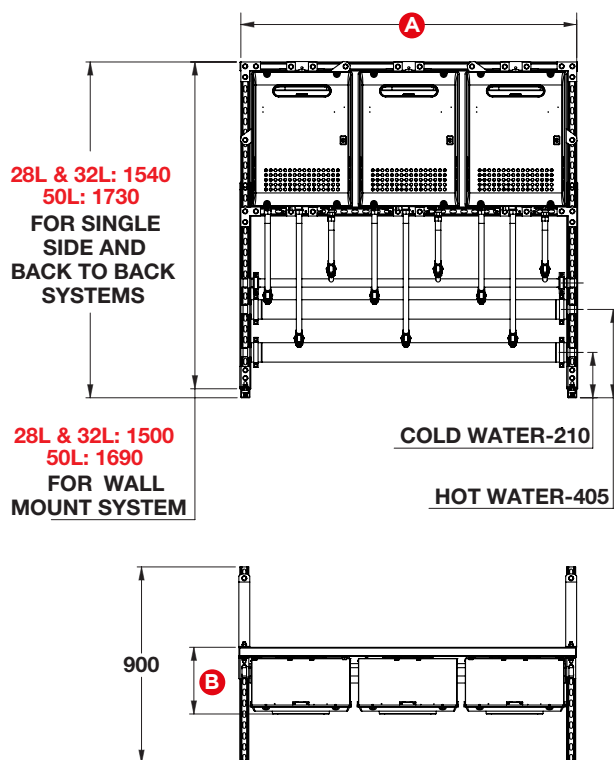
T22813 + (F or E) + (N or L ) + (W, F or B) + (K)\*

(Flue or External) + (Natural or ULPG) + (Wall, Floor or Back to Back) + (Kit)\*

\*Indicates that the system can be ordered in kit form. 2 & 3 manifold kits come with feet to enable wall or floor mounting. Not available in Back to Back configurations.



# TANK MANIFOLD SYSTEM DIMENSIONS



| QTY OF<br>UNITS | DIMENSION 'A' (MM) |           |
|-----------------|--------------------|-----------|
|                 | 28L                | 32L & 50L |
| 2 UNIT          | 794                | 1040      |
| 3 UNIT          | 1170               | 1540      |
| 4 UNIT          | 1588               | 2080      |
| 5 UNIT          | 1964               | 2580      |
| 6 UNIT          | 2340               | 3080      |

B: FOR WALL MOUNT SYSTEMS

| VERSION     | DIMENSION 'B' (MM) |
|-------------|--------------------|
| 28L OUTDOOR | 305                |
| 28L INDOOR  | 335                |
| 32L OUTDOOR | 310                |
| 32L INDOOR  | 295                |
| 50L OUTDOOR | 420                |

WEIGHT: MANIFOLD SYSTEM (KG)

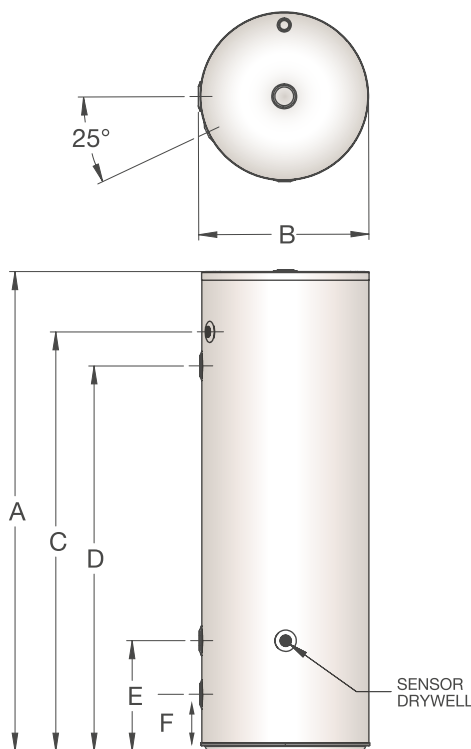
| VERSION | CRATED     |                   | UNCRTED    |                   |
|---------|------------|-------------------|------------|-------------------|
|         | FRAME ONLY | FRAME INC. HEATER | FRAME ONLY | FRAME INC. HEATER |
| 2 X 28L | 110        | 160               | 40         | 90                |
| 3 X 28L | 125        | 200               | 45         | 120               |
| 2 X 32L | 115        | 175               | 50         | 110               |
| 3 X 32L | 145        | 240               | 55         | 140               |
| 2 X 50L | 115        | N/A               | 50         | N/A               |
| 3 X 50L | 145        | N/A               | 55         | N/A               |

MANIFOLD PIPE SIZING (MM)

| MODEL | 50L | 32L /28L |
|-------|-----|----------|
| GAS   | 50  | 40       |
| COLD  | 50  | 40       |
| HOT   | 50  | 40       |

## THERMANN COMMERCIAL STORAGE TANK

| NOMINAL DIMENSIONS (MM)                     |                     |                     |
|---|---------------------|---------------------|
| MODEL                                       | 315THMCO<br>9507377 | 400THMCO<br>9507378 |
| Total Height (A)                            | 1765                | 1705                |
| Total Diameter (B)                          | 615                 | 705                 |
| Relief Valve Height (C)                     | 1540                | 1430                |
| Outlet Height (D)                           | 1415                | 1430                |
| Return Height (E)                           | 405                 | 390                 |
| Inlet Height (F)                            | 210                 | 235                 |
| SPECIFICATIONS                              |                     |                     |
| MODEL                                       | 315THMCO<br>9507377 | 400THMCO<br>9507378 |
| Storage Capacity (L)                        | 320                 | 420                 |
| Net Weight Empty (kg)                       | 93                  | 115                 |
| Maximum Operating Pressure (kPa)            | 800                 |                     |
| Maximum Temperature (°C)                    | 82*                 |                     |
| Connections (mm)<br>Inlet / Outlet / Return | 50                  |                     |
| TPR   | ¾" 1000 kPa         |                     |



The Thermann Commercial tank is a high performance, high capacity, low maintenance tank, designed for the heavy demand of commercial and industrial applications

### FEATURES

- Suitable for water temperature from 60°C to 82°C.
- For heavy demand application the Thermann commercial tanks can be manifolded together for greater flexibility.
- 50mm connections for hi-flow applications.
- Available in 315L and 400L models.
- Y class enamel - commercial grade enamel for durability.
- Australian made.
- Warranty:
  - 5 year tank
  - 2 year parts and labour.

Note: Tank manifold systems will require a system controller to achieve above 75°C.

\*Max manifold system tank temperature is 75°C.

# A SOLUTION FOR EVERY APPLICATION

**Thermann Commercial continuous flow water heaters can be ordered either mounted on frame or supplied separately.**

- ▶ Modular configuration allows up to 24 units to be manifolded, in combinations of 2 and 3 water heater frames.
- ▶ Frames feature a solid steel, hot dip galvanised construction and are wind rated up to 100m above ground in regions A&B and terrain category 2.
- ▶ All frames feature factory mounted UV stable insulated cold & hot water header pipes, and a gas line.
- ▶ Suitable for external and internal installations.
- ▶ All frames come with flexible connections to water heaters.
- ▶ Manifold frame installation options; Wall mount, floor mount or back to back.
- ▶ There are 6 different frames available;
  - 28L; 2 unit or 3 unit option
  - 32L; 2 unit or 3 unit option
  - 50L; 2 unit or 3 unit option



## FACTORY MOUNTED OPTION

- ▶ Water heaters are mounted to the frame (ex-factory) and shipped to site pre-assembled.
- ▶ Manifold systems arrive to site ready for connection to gas and water.
- ▶ Combinations of 2 and 3 manifold frames can be combined for systems up to 24 units.
- ▶ Frames can be ordered with or without feet to suit wall or floor mounting and also with the option for 'back-to back' installation.
- ▶ Systems are custom built to specification.

### Perfect for:

- ▶ New construction.
- ▶ Large, commercial fit-outs.
- ▶ Sites with goods lifts to plant level.
- ▶ Sites with crane access.
- ▶ Reducing installation time on-site.

## SITE MOUNTED OPTION

- ▶ Water heaters are not mounted to frame and require assembly onto the frame onsite.
- ▶ Frame comes with pipes, valves and hoses attached.
- ▶ Available to order in 2 & 3 manifold kits.
- ▶ All kit models suit 'wall' or 'floor' mounting (feet are provided with all models, & can be fitted if required).
- ▶ Once assembled on-site, the units will be as per a complete systems supplied.
- ▶ 'Back to back' configurations are not available.

### Perfect for:

- ▶ Sites with access limitations.
- ▶ Lifts on site to plant level are not available or inadequate.
- ▶ Retrofit situations.
- ▶ For 'emergency' replacement situations where a solution is required quickly.

Note: 50L models come as site mounted option only.

# VARIATIONS OF THE SAME SYSTEM

## EXAMPLE SYSTEM CONFIGURATION 2 X 28L MANIFOLD

### FACTORY MOUNTED SYSTEM

**T22800ENF**



1 manifold, 2 x 28L/min Units  
FACTORY MOUNTED  
(1 X T228ENF)

Accessory box;  
Remote controller & cable,  
quick-connect cable and  
40mm end caps  
(1 x CFAB020)

### SITE MOUNTED SYSTEM - JUST ADD 'K'

**TO THE PRODUCT CODE WHEN ORDERING**

**T22800ENFK**



2 x 28L/min Water  
Heaters  
(2 x TH28ENR6N)

1 x 2 Unit 28L/min  
Frame  
(1 X CFFA228K)

Accessory box;  
Remote controller & cable,  
quick-connect cable and  
40mm end caps  
(1 x CFAB020)

## EXAMPLE SYSTEM CONFIGURATION 3 X 32L MANIFOLD WITH TANK

### FACTORY MOUNTED SYSTEM

**T33213ENF**



1 manifold, 3 x 32L/min Units  
FACTORY MOUNTED (T332ENF)



Accessory box  
Thermostat, pump, unions and  
pump lead, 40mm endcaps  
(1 x CFAB017)



1 x 315 litre  
Storage tank  
(315THMC0)

### SITE MOUNTED SYSTEM - JUST ADD 'K'

**TO THE PRODUCT CODE WHEN ORDERING**

**T33213ENFK**



3 x 32L/min Water Heaters  
(3 x TH32ECR6N)

1 x 3 Unit 32L/min Frame  
(1 X CFFA332K)



Accessory box  
Thermostat, pump, unions and  
pump lead, 40mm end caps  
(1 x CFAB017)



1 x 315 litre  
Storage tank  
(315THMC0)

# 50L MANIFOLD SITE MOUNTED CODES

## ONE CONTINUOUS FLOW WATER HEATER WITH STORAGE TANK

| Manifold Kit Model Number | Water Heater |     | Frame |     | Accessory Box |   | Storage Tank |   |
|---------------------------|--------------|-----|-------|-----|---------------|---|--------------|---|
|                           | Model        | Qty | Model | Qty | Model         |   | Model        |   |
| T15014ENWK                | TH50ECR6N    | 1   | -     | -   | CFAB025       | 1 | 400THMCO     | 1 |
| T15014ELWK                | TH50ECR6L    | 1   | -     | -   | CFAB025       | 1 | 400THMCO     | 1 |

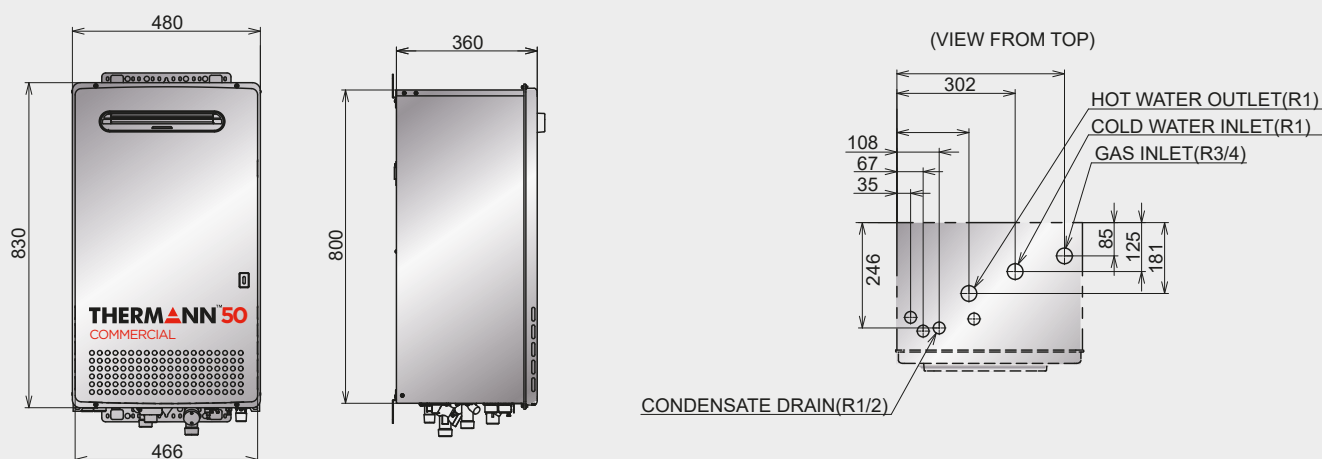
## TWO CONTINUOUS FLOW WATER HEATERS WITH AND WITHOUT STORAGE TANK

| Manifold Kit Model Number | Water Heater |     | Frame     |     | Accessory Box |   | Storage Tank |   |
|---------------------------|--------------|-----|-----------|-----|---------------|---|--------------|---|
|                           | Model        | Qty | Model     | Qty | Model         |   | Model        |   |
| T25000ELFK                | TH50ECR6L    | 2   | CFFA250-K | 1   | CFAB027       | 1 |              |   |
| T25000ENFK                | TH50ECR6N    | 2   | CFFA250-K | 1   | CFAB027       | 1 |              |   |
| T25014ELFK                | TH50ECR6L    | 2   | CFFA250-K | 1   | CFAB028       | 1 | 400THMCO     | 1 |
| T25014ENFK                | TH50ECR6N    | 2   | CFFA250-K | 1   | CFAB028       | 1 | 400THMCO     | 1 |

## THREE CONTINUOUS FLOW WATER HEATERS WITH AND WITHOUT STORAGE TANK

| Manifold Kit Model Number | Water Heater |     | Frame     |     | Accessory Box |   | Storage Tank |   |
|---------------------------|--------------|-----|-----------|-----|---------------|---|--------------|---|
|                           | Model        | Qty | Model     | Qty | Model         |   | Model        |   |
| T35000ELFK                | TH50ECR6L    | 3   | CFFA350-K | 1   | CFAB029       | 1 |              |   |
| T35000ENFK                | TH50ECR6N    | 3   | CFFA350-K | 1   | CFAB029       | 1 |              |   |
| T35014ELFK                | TH50ECR6L    | 3   | CFFA350-K | 1   | CFAB028       | 1 | 400THMCO     | 1 |
| T35014ENFK                | TH50ECR6N    | 3   | CFFA350-K | 1   | CFAB028       | 1 | 400THMCO     | 1 |

## 50L OUTDOOR DIMENSIONS





# 32L MANIFOLD SITE MOUNTED CODES

## ONE CONTINUOUS FLOW WATER HEATER WITH STORAGE TANK

| Manifold Kit<br>Model Number | Water Heater |     | Frame |     | Accessory Box | Storage Tank |
|------------------------------|--------------|-----|-------|-----|---------------|--------------|
|                              | Model        | Qty | Model | Qty | Model         | Model        |
| T13213FNWK                   | TH32FCR6N    | 1   | -     | -   | CFAB025       | 315THMCO     |
| T13214FNWK                   | TH32FCR6N    | 1   | -     | -   | CFAB025       | 400THMCO     |
| T13213FLWK                   | TH32FCR6L    | 1   | -     | -   | CFAB025       | 315THMCO     |
| T13214FLWK                   | TH32FCR6L    | 1   | -     | -   | CFAB025       | 400THMCO     |
| T13213ENWK                   | TH32ECR6N    | 1   | -     | -   | CFAB025       | 315THMCO     |
| T13214ENWK                   | TH32ECR6N    | 1   | -     | -   | CFAB025       | 400THMCO     |
| T13213ELWK                   | TH32ECR6L    | 1   | -     | -   | CFAB025       | 315THMCO     |
| T13214ELWK                   | TH32ECR6L    | 1   | -     | -   | CFAB025       | 400THMCO     |

## TWO CONTINUOUS FLOW WATER HEATERS WITH AND WITHOUT STORAGE TANK

| Manifold Kit<br>Model Number | Water Heater |     | Frame     |     | Accessory Box | Storage Tank |
|------------------------------|--------------|-----|-----------|-----|---------------|--------------|
|                              | Model        | Qty | Model     | Qty | Model         | Model        |
| T23200ELFK                   | TH32ECR6L    | 2   | CFFA232-K | 1   | CFAB020       | -            |
| T23200ENFK                   | TH32ECR6N    | 2   | CFFA232-K | 1   | CFAB020       | -            |
| T23200FLFK                   | TH32FCR6L    | 2   | CFFA232-K | 1   | CFAB020       | -            |
| T23200FNFK                   | TH32FCR6N    | 2   | CFFA232-K | 1   | CFAB020       | -            |
| T23213ELFK                   | TH32ECR6L    | 2   | CFFA232-K | 1   | CFAB017       | 315THMCO     |
| T23214ELFK                   | TH32ECR6L    | 2   | CFFA232-K | 1   | CFAB017       | 400THMCO     |
| T23213ENFK                   | TH32ECR6N    | 2   | CFFA232-K | 1   | CFAB017       | 315THMCO     |
| T23214ENFK                   | TH32ECR6N    | 2   | CFFA232-K | 1   | CFAB017       | 400THMCO     |
| T23213FLFK                   | TH32FCR6L    | 2   | CFFA232-K | 1   | CFAB017       | 315THMCO     |
| T23214FLFK                   | TH32FCR6L    | 2   | CFFA232-K | 1   | CFAB017       | 400THMCO     |
| T23213FNFK                   | TH32FCR6N    | 2   | CFFA232-K | 1   | CFAB017       | 315THMCO     |
| T23214FNFK                   | TH32FCR6N    | 2   | CFFA232-K | 1   | CFAB017       | 315THMCO     |

## THREE CONTINUOUS FLOW WATER HEATERS WITH AND WITHOUT STORAGE TANK

| Manifold Kit<br>Model Number | Water Heater |     | Frame     |     | Accessory Box | Storage Tank |
|------------------------------|--------------|-----|-----------|-----|---------------|--------------|
|                              | Model        | Qty | Model     | Qty | Model         | Model        |
| T33200ELFK                   | TH32ECR6L    | 3   | CFFA332-K | 1   | CFAB019       | -            |
| T33200ENFK                   | TH32ECR6N    | 3   | CFFA332-K | 1   | CFAB019       | -            |
| T33200FLFK                   | TH32FCR6L    | 3   | CFFA332-K | 1   | CFAB019       | -            |
| T33200FNFK                   | TH32FCR6N    | 3   | CFFA332-K | 1   | CFAB019       | -            |
| T33213ELFK                   | TH32ECR6L    | 3   | CFFA332-K | 1   | CFAB017       | 315THMCO     |
| T33214ELFK                   | TH32ECR6L    | 3   | CFFA332-K | 1   | CFAB017       | 400THMCO     |
| T33213ENFK                   | TH32ECR6N    | 3   | CFFA332-K | 1   | CFAB017       | 315THMCO     |
| T33214ENFK                   | TH32ECR6N    | 3   | CFFA332-K | 1   | CFAB017       | 400THMCO     |
| T33213FLFK                   | TH32FCR6L    | 3   | CFFA332-K | 1   | CFAB017       | 315THMCO     |
| T33214FLFK                   | TH32FCR6L    | 3   | CFFA332-K | 1   | CFAB017       | 400THMCO     |
| T33213FNFK                   | TH32FCR6N    | 3   | CFFA332-K | 1   | CFAB017       | 315THMCO     |
| T33214FNFK                   | TH32FCR6N    | 3   | CFFA332-K | 1   | CFAB017       | 400THMCO     |

# 28L MANIFOLD SITE MOUNTED CODES

## ONE CONTINUOUS FLOW WATER HEATER WITH STORAGE TANK

| Manifold Kit<br>Model Number | Water Heater |     | Frame |     | Accessory Box | Storage Tank |
|------------------------------|--------------|-----|-------|-----|---------------|--------------|
|                              | Model        | Qty | Model | Qty | Model         | Model        |
| T12813FNWK                   | TH28FNR6N    | 1   | -     | -   | CFAB026       | 315THMCO     |
| T12814FNWK                   | TH28FNR6N    | 1   | -     | -   | CFAB026       | 400THMCO     |
| T12813FLWK                   | TH28FNR6L    | 1   | -     | -   | CFAB026       | 315THMCO     |
| T12814FLWK                   | TH28FNR6L    | 1   | -     | -   | CFAB026       | 400THMCO     |
| T12813ENWK                   | TH28ENR6N    | 1   | -     | -   | CFAB026       | 315THMCO     |
| T12814ENWK                   | TH28ENR6N    | 1   | -     | -   | CFAB026       | 400THMCO     |
| T12813ELWK                   | TH28ENR6L    | 1   | -     | -   | CFAB026       | 315THMCO     |
| T12814ELWK                   | TH28ENR6L    | 1   | -     | -   | CFAB026       | 400THMCO     |

## TWO CONTINUOUS FLOW WATER HEATERS WITH AND WITHOUT STORAGE TANK

| Manifold Kit<br>Model Number | Water Heater |     | Frame     |     | Accessory Box | Storage Tank |
|------------------------------|--------------|-----|-----------|-----|---------------|--------------|
|                              | Model        | Qty | Model     | Qty | Model         | Model        |
| T22800ELFK                   | TH28ENR6L    | 2   | CFFA228-K | 1   | CFAB020       | -            |
| T22800ENFK                   | TH28ENR6N    | 2   | CFFA228-K | 1   | CFAB020       | -            |
| T22800FLFK                   | TH28FNR6L    | 2   | CFFA228-K | 1   | CFAB020       | -            |
| T22800FNFK                   | TH28FNR6N    | 2   | CFFA228-K | 1   | CFAB020       | -            |
| T22813ELFK                   | TH28ENR6L    | 2   | CFFA228-K | 1   | CFAB018       | 315THMCO     |
| T22814ELFK                   | TH28ENR6L    | 2   | CFFA228-K | 1   | CFAB018       | 400THMCO     |
| T22813ENFK                   | TH28ENR6N    | 2   | CFFA228-K | 1   | CFAB018       | 315THMCO     |
| T22814ENFK                   | TH28ENR6N    | 2   | CFFA228-K | 1   | CFAB018       | 400THMCO     |
| T22813FLFK                   | TH28FNR6L    | 2   | CFFA228-K | 1   | CFAB018       | 315THMCO     |
| T22814FLFK                   | TH28FNR6L    | 2   | CFFA228-K | 1   | CFAB018       | 400THMCO     |
| T22813FNFK                   | TH28FNR6N    | 2   | CFFA228-K | 1   | CFAB018       | 315THMCO     |
| T22814FNFK                   | TH28FNR6N    | 2   | CFFA228-K | 1   | CFAB018       | 400THMCO     |

## THREE CONTINUOUS FLOW WATER HEATERS WITH AND WITHOUT STORAGE TANK

| Manifold Kit<br>Model Number | Water Heater |     | Frame     |     | Accessory Box | System controller | Storage Tank |
|------------------------------|--------------|-----|-----------|-----|---------------|-------------------|--------------|
|                              | Model        | Qty | Model     | Qty | Model         | Model             | Model        |
| T32800ELFK                   | TH28ENR6L    | 3   | CFFA328-K | 1   | CFAB007       | CF-SC4016M-EX     | -            |
| T32800ENFK                   | TH28ENR6N    | 3   | CFFA328-K | 1   | CFAB007       | CF-SC4016M-EX     | -            |
| T32800FLFK                   | TH28FNR6L    | 3   | CFFA328-K | 1   | CFAB007       | CF-SC4016M-EX     | -            |
| T32800FNFK                   | TH28FNR6N    | 3   | CFFA328-K | 1   | CFAB007       | CF-SC4016M-EX     | -            |
| T32813ELFK                   | TH28ENR6L    | 3   | CFFA328-K | 1   | CFAB018       | -                 | 315THMCO     |
| T32814ELFK                   | TH28ENR6L    | 3   | CFFA328-K | 1   | CFAB018       | -                 | 400THMCO     |
| T32813ENFK                   | TH28ENR6N    | 3   | CFFA328-K | 1   | CFAB018       | -                 | 315THMCO     |
| T32814ENFK                   | TH28ENR6N    | 3   | CFFA328-K | 1   | CFAB018       | -                 | 400THMCO     |
| T32813FLFK                   | TH28FNR6L    | 3   | CFFA328-K | 1   | CFAB018       | -                 | 315THMCO     |
| T32814FLFK                   | TH28FNR6L    | 3   | CFFA328-K | 1   | CFAB018       | -                 | 400THMCO     |
| T32813FNFK                   | TH28FNR6N    | 3   | CFFA328-K | 1   | CFAB018       | -                 | 315THMCO     |
| T32814FNFK                   | TH28FNR6N    | 3   | CFFA328-K | 1   | CFAB018       | -                 | 400THMCO     |

# ACCESSORY BOXES

- ▶ All Thermann Commercial manifolded water heaters come standard with an accessory box.
- ▶ Each accessory box typically contain a mixture of pumps, system controllers, remote controllers, unions, cables and end caps.
- ▶ The components of these boxes vary depending on the system type.
- ▶ The most common accessory boxes are displayed on this page.

## WITH STORAGE TANK SYSTEMS

### 1 UNIT WITH TANK



- ▶ 28L; CFAB026
- ▶ 32L & 50L; CFAB025

### 2 - 6 PACK WITH TANK



- ▶ 28L; CFAB018
- ▶ 32L; CFAB017



- ▶ 2 or 3 unit 50L; CFAB028

## NO STORAGE TANK SYSTEMS

### 2 PACK WITHOUT TANK



- ▶ 28L & 32L; CFAB020
- ▶ 50L; CFAB027

### 3 PACK WITHOUT TANK



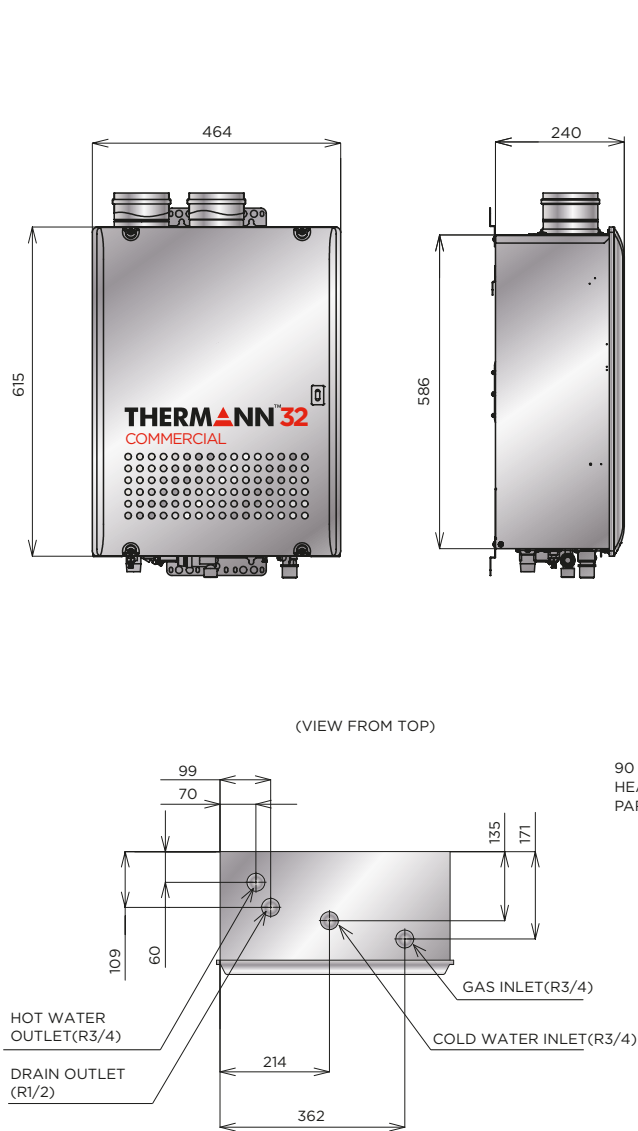
- ▶ 28L; CFAB007



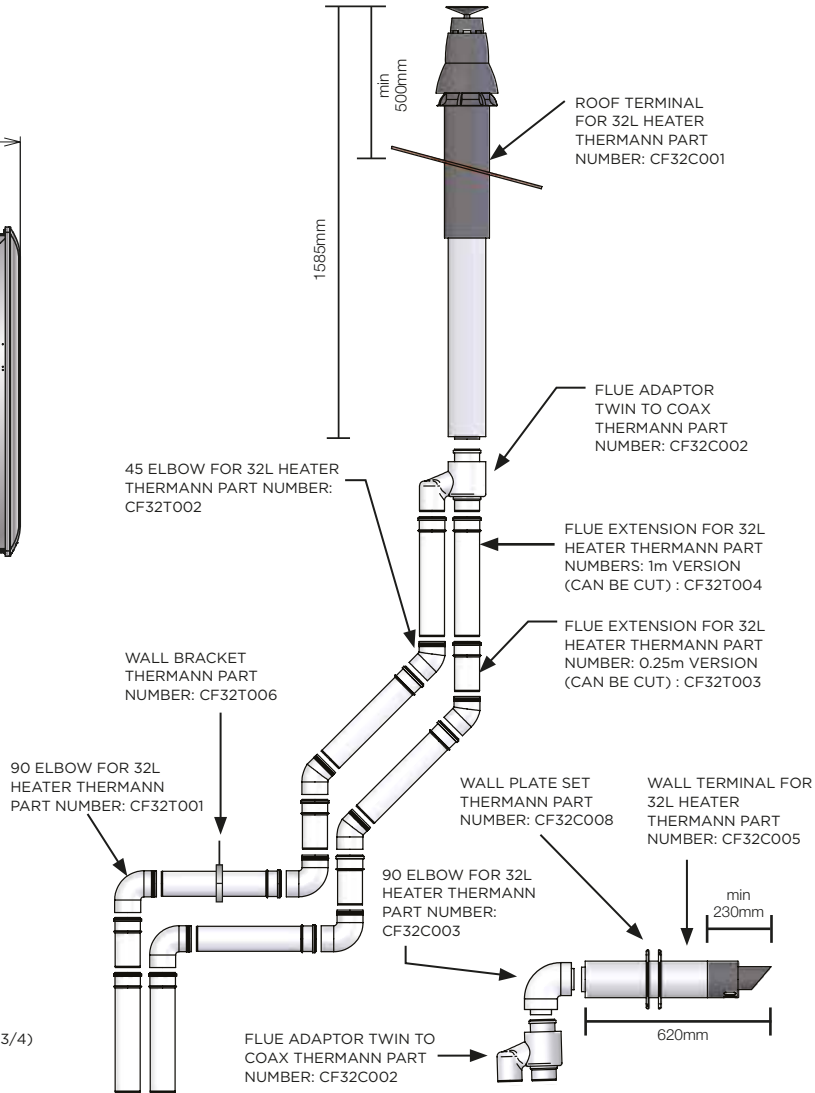
- ▶ 32L; CFAB019
- ▶ 50L; CFAB029

# 32L INDOOR & OUTDOOR FLUEING & DIMENSIONS

## 32L INDOOR UNIT



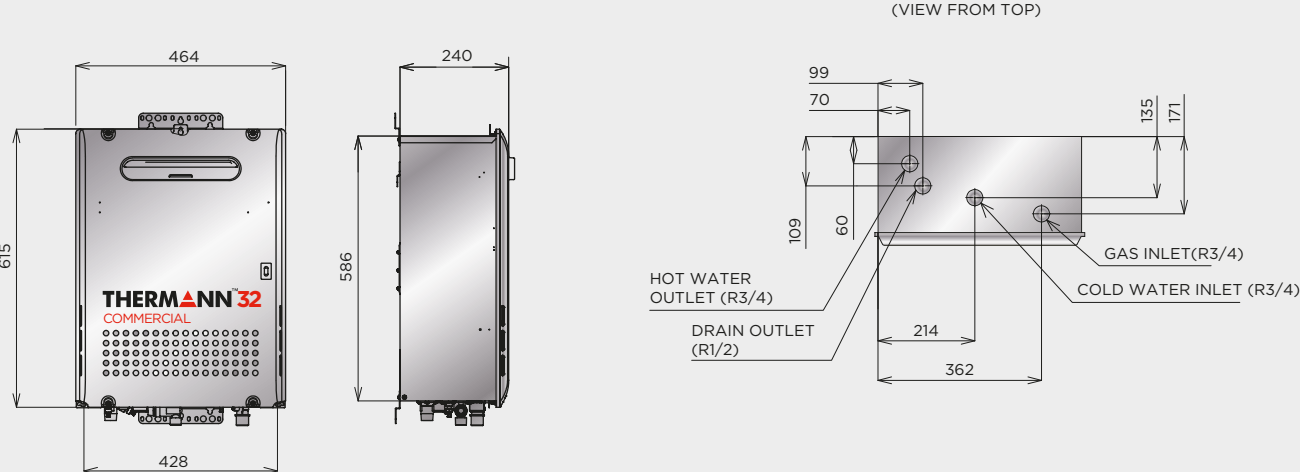
## 32L TWIN FLUEING OPTIONS



|                   |    |    |    |   |
|-------------------|----|----|----|---|
| Number of elbows  | 0  | 1  | 2  | 3 |
| Max length meters | 14 | 12 | 11 | 9 |

Installation must comply with AS/NZS 5601

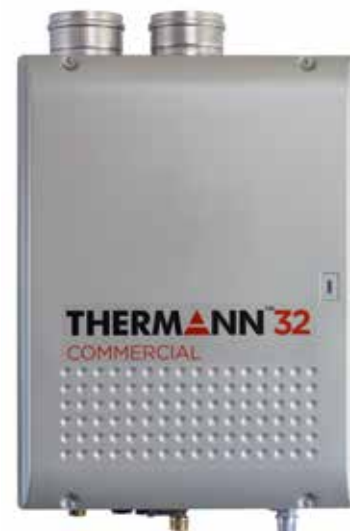
## 32L OUTDOOR UNIT





# 32L INDOOR & OUTDOOR FLUEING ACCESSORIES

The Thermann Commercial 32L is a room sealed unit that uses a twin flue system. One pipe allows exhaust gases to travel out of the continuous flow heater, whilst the other pipe allows air in for combustion. The flue pipes are constructed from Polypropylene (PP), ensuring they are lightweight and easy to work with. PP pipes can be used on the 32 as it's a condensing unit with lower temperature exhaust gases.



**WALL TERMINAL**  
Thermann Part # 9507664  
CF32C005  
COAX 100/150



**ROOF TERMINAL**  
Thermann Part # 9507661  
CF32C001  
COAX 100/150



**ELBOW 90°**  
Thermann Part # 9507665  
CF32T001  
ELBOW TWIN 90° 100



**ELBOW 45°**  
Thermann Part # 9507666  
CF32T002  
ELBOW TWIN 45° 100



**ELBOW 90° COAXIAL 100-150**  
Thermann Part # 9507663  
CF32C003  
ELBOW TWIN 90° 100



**FLUE EXTENSION**  
Thermann Part # 9507667  
CF32T003  
0.25M TWIN 100  
(CAN BE CUT)

**FLUE EXTENSION**  
Thermann Part # 9507668  
CF32T004  
1.0M TWIN 100  
(CAN BE CUT)



**WALL BRACKET**  
Thermann Part # 9507669  
CF32T006  
Wall bracket is required to secure the flue part to the wall.



**KIT-OPEN FLUE ADAPTOR 32L**  
Thermann Part # 9508213  
CF32K001  
The kit is only required for installations with air intake from room. Dipswitch 3 on when used.



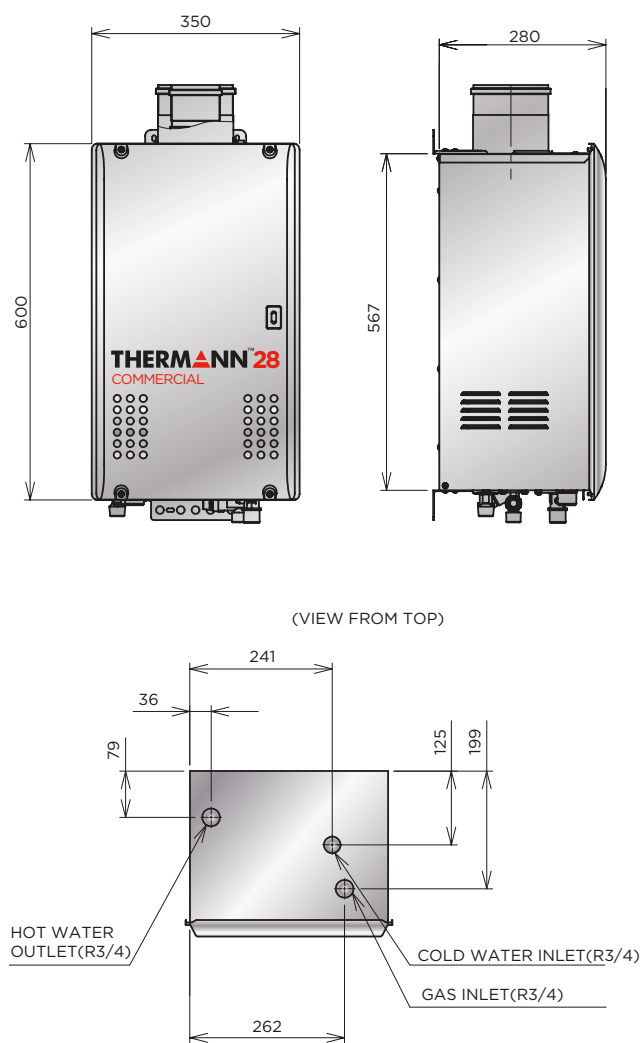
**FLU ADAPTOR - TWIN TO COAX**  
Thermann Part # 9507662  
CF32C002  
This component is required with wall and roof terminals in case of room sealed installation.



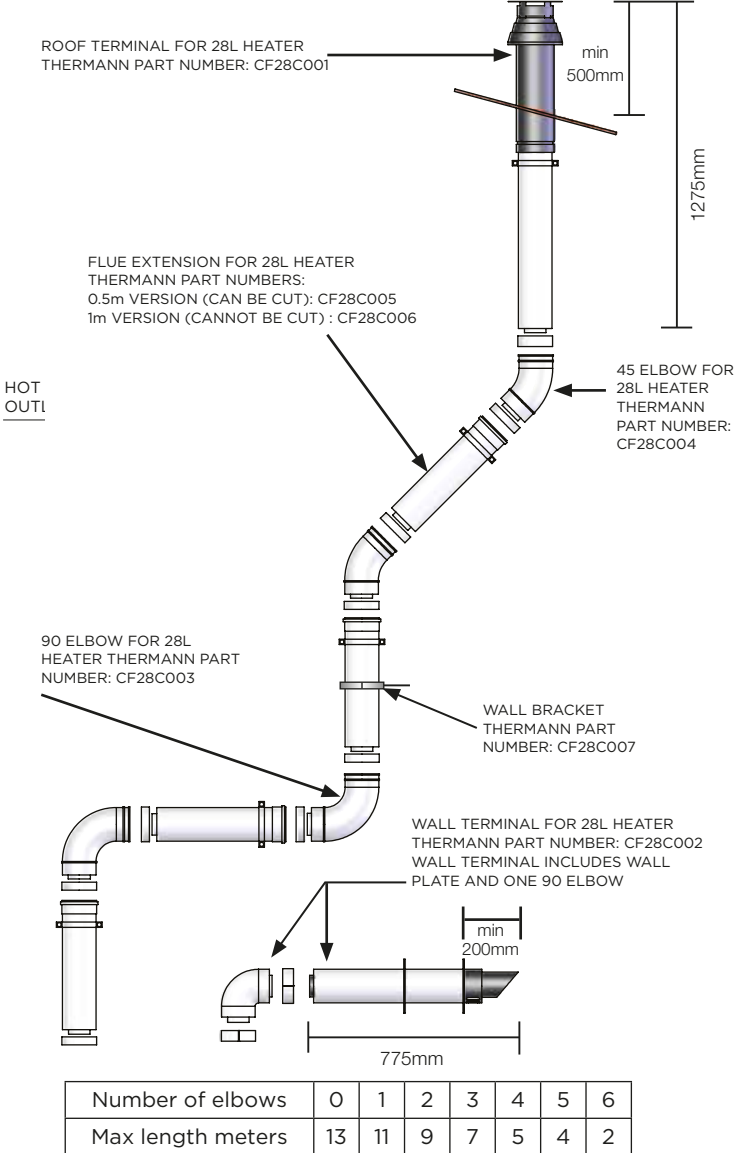
**WALL PLATE SET 150**  
Thermann Part # 9507887  
CF32C008

# 28L INDOOR & OUTDOOR FLUEING & DIMENSIONS

## 28L INDOOR UNIT

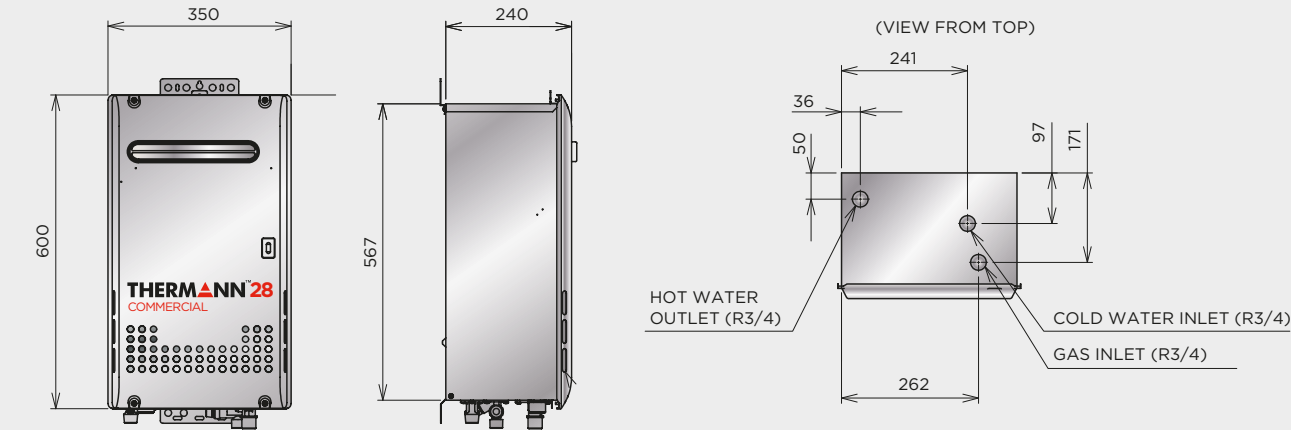


## 28L FLUEING OPTIONS



Installation must comply with AS/NZS 5601

## 28L OUTDOOR UNIT



# 28L INDOOR & OUTDOOR FLUEING ACCESSORIES

The Thermann Commercial 28L Indoor model is designed as a room sealed system that uses a coaxial flue. The flue is made up of a durable, stainless steel inner pipe which carries exhaust gases out of the continuous flow heater to the outdoor atmosphere, whilst the white powder coated steel outer pipe draws air in for combustion.



## ROOF TERMINAL

Thermann Part # 9507653  
CF28C001  
COAX 80/125



## WALL TERMINAL

Thermann Part # 9507654  
CF28C002  
COAX 80/125

Wall terminal includes wall plate set and one 90° elbow



## WALL BRACKET 125

Thermann Part # 9507659  
CF28C007

Wall bracket is required to secure the flue parts to the wall



## ELBOW 90°

Thermann Part # 9507655  
CF28C003  
COAX 90° 80/125



## ELBOW 45°

Thermann Part # 9507656  
CF28C004  
COAX 45° 80/125



## KIT-OPEN FLUE ADAPTER 28L

Thermann Part # 9508212  
CF28K001  
Dipswitch 3 on when used



## FLUE EXTENSION

Thermann Part # 9507657  
CF28C005  
0.5M COAX 80/125  
(CAN BE CUT)

## FLUE EXTENSION

Thermann Part # 9507658  
CF28C006  
1M COAX 80/125  
(CANNOT BE CUT)

## NOTE

Thermann Commercial continuous flow products are certified for use with these flue components and accessories ONLY.

Be aware that you may have to adjust the dip switches inside the water heater to achieve the specified system performance, depending on the total length of the flue pipe. Refer to the installation instructions for maximum flue lengths, and dipswitch settings.

# COMMERCIAL ACCESSORIES

| ACCESSORY   | DESCRIPTION   | PART NUMBER      |
|---|---|------------------|
| <b>SYSTEM CONTROLLERS</b><br>The system controller is designed to link up to 12 continuous flow systems, allowing cascade and rotation functions.   | <b>System control for up to 6 Continuous Flow Units:</b><br>(For 32L & 50L models only) |                  |
|   | System controller 1-6   | 9507379          |
|   | 3m Connection Cable   | 9507380          |
|   | 5m Connection Cable   | 9507381          |
|   | <b>System controller for up to 12 Continuous Flow Units</b>                             |                  |
|   | System controller 1- 12   | 9507382          |
|   | 3m Connection Cable   | 9507383          |
|   | 5m Connection Cable   | 9507384          |
| <b>REMOTE CONTROLLER AND CABLE</b><br>Designed to allow adjustment of temperature as well as provide fault finding and diagnostic information. Comes with cable to connect remote controller to heater. | Remote Controller   | Internal 9507385 |
|   |   | External 1307003 |
| <b>QUICK CONNECT CABLE</b><br>The quick connect cable is used when linking 2 continuous flow units only.  | Quick connect cable 2M<br><br>NOTE: Remote controller needed for operation              | 9507386          |
| <b>TANK RECIRCULATION PUMPS</b><br>To connect continuous flow systems to storage tanks.   | <b>Pump for up to six 28L continuous flow heaters</b>                                   |                  |
|   | Circulation pump (UPS 25-80)  | 1360137          |
|   | Unions  | 1360139          |
|   | <b>Pump for up to six 32L or 50L continuous flow heaters</b>                            |                  |
|   | Circulation pump (UPS 32-100)   | 1360136          |
|   | Unions  | 1360138          |
| <b>TANK THERMOSTAT</b>  | Alphastatplus   | 1360135          |

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