tecumseh

# evaporator range.

made like no other.

# ready for what's next.

Tecumseh doesn't just make cooling systems – it builds trust. Precision engineered, globally connected, designed to perform and built to last.

A global leader when it comes to performance, we continue to set the standard that others follow. Ensuring everything that comes next is truly made like no other.



**commitment.**
To exceptional technical and application support.

**performance.**
Proven quality and guaranteed performance.

**innovation.**
Leading the way with improved product efficiency and service.

**focus.**
Continually investing in research & engineering development.

# it’s what’s inside that counts.


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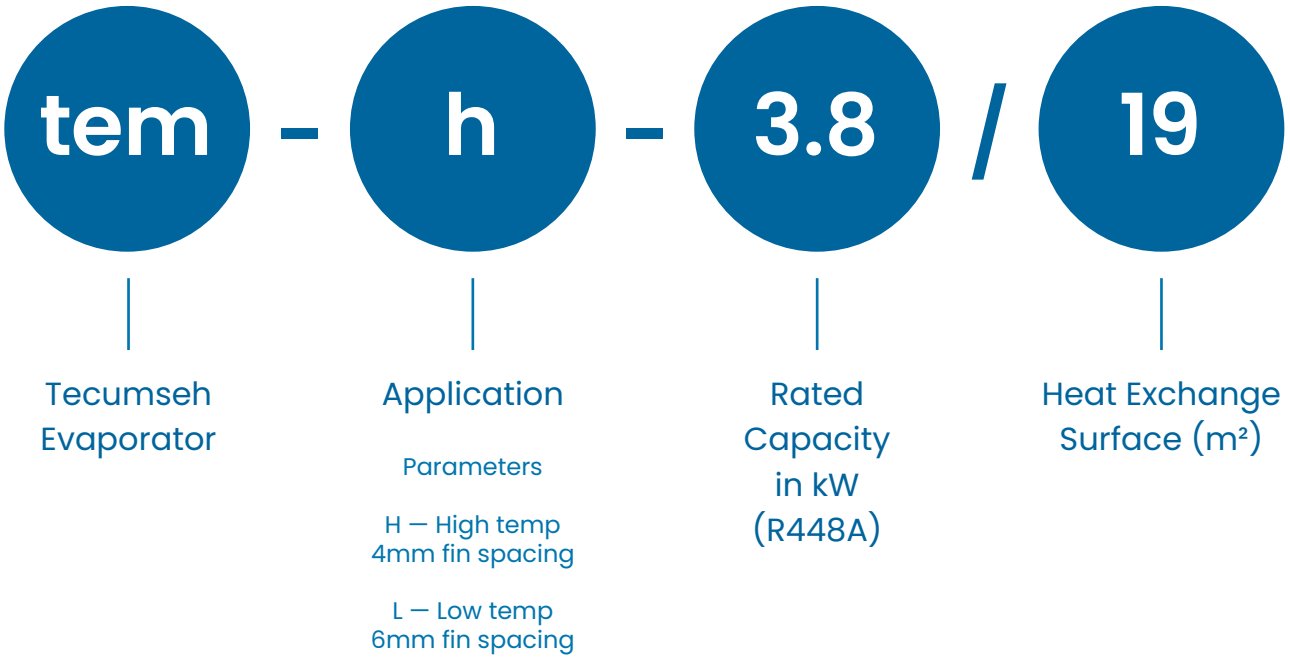
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# nomenclature.



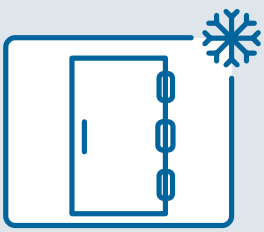
# made like no other evaporator.

Backed by the real world performance we're known for, Tecumseh delivers an evaporator range designed and built for Australian conditions.

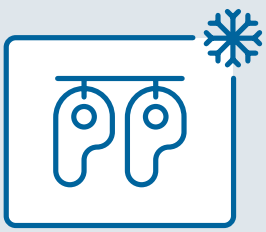



## applications.

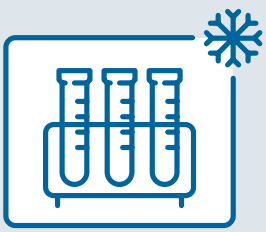
Tested and trusted by refrigeration technicians, our evaporators are suitable for a wide range of applications.



**walk-in cool rooms**



**food processing rooms**



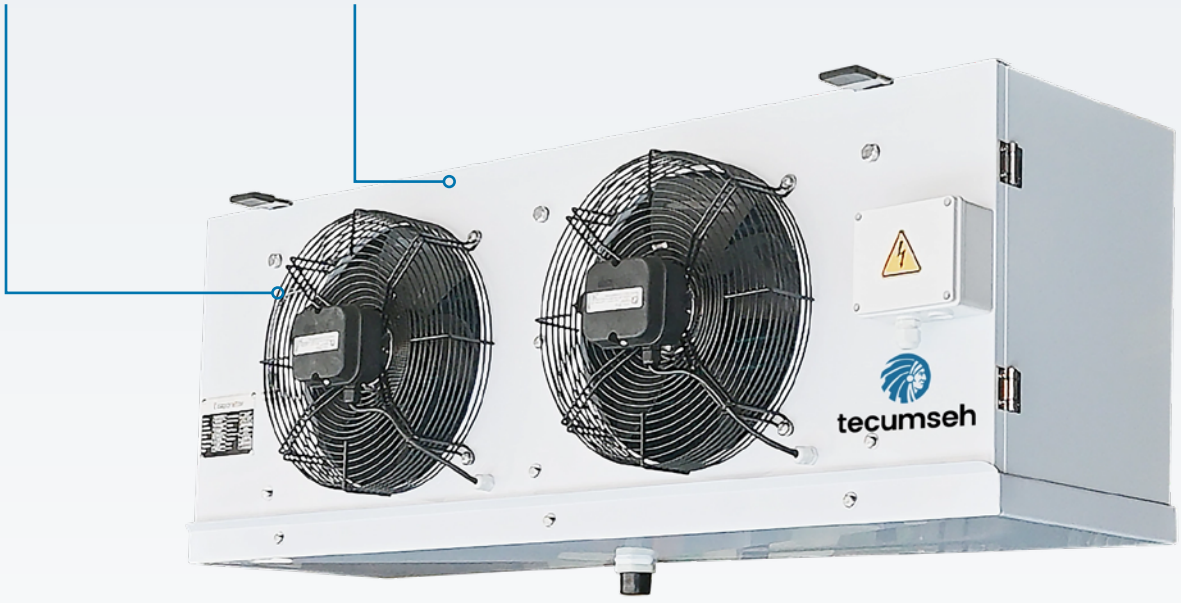
**medical storage**

# features.

Tecumseh evaporators are the undisputed choice when it comes to rock solid reliability and longevity. That's our promise.

**fan diameter**
300mm, 400mm suitable for 50/60 Hz applications.

**body casing**
Durable and lightweight powder-coated premium aluminium.




**quality fans**
Manufactured by ebm-papst for reliability and performance.

**capacity**
Medium & low temperature:
1.8 – 5.6 kW

**refrigerant**
Compatible with all new refrigerants including R448A, R449A, R452A, R513A, R450A, R404A, R134a, R507

# technicians trust tecumseh.

## compact design.

Maximises cooling efficiency and performance even in the tightest spaces.

## easy installation and maintenance.

Lightweight structure and hinged side panels for fast and easy access.

## performance driven.

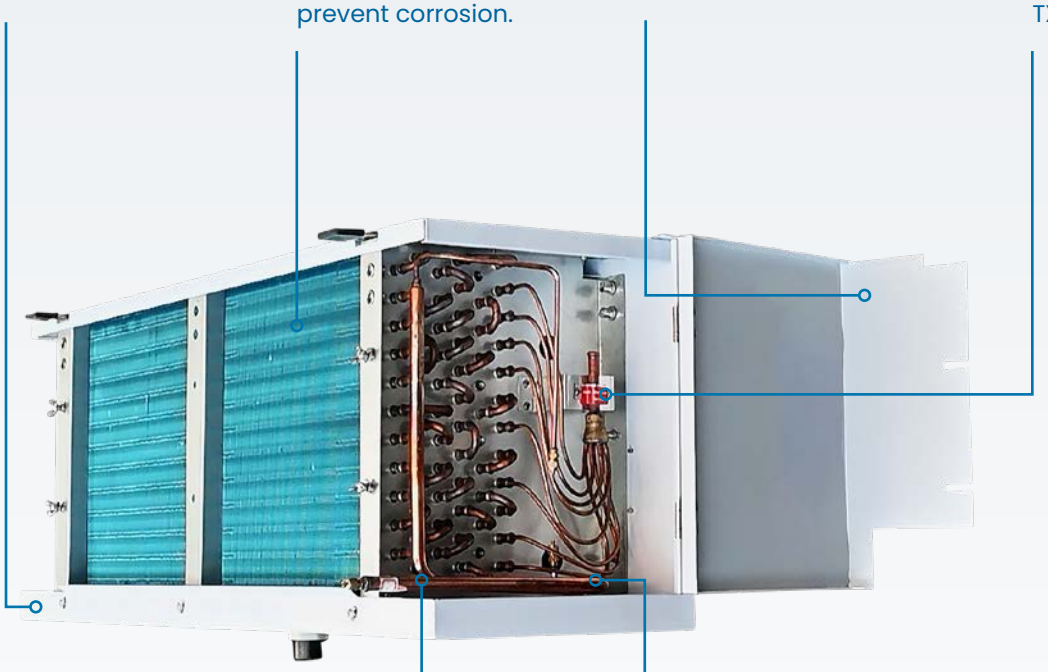
Advanced heat exchange and steady airflow for product quality.

**drain pan**
Central outlet for universal installation.

**fins**
Engineered to reduce defrosting cycles, plus blue hydrophilic fin to prevent corrosion.

**side panels**
Hinged door for easy installation, servicing and maintenance.

**distributor header**
Upward facing for even refrigerant flow, optimised performance and easy TXV installation.



**extended copper tube**
Extended 1/4" equalising tube with access valve for easy pressure testing and flexible TXV setup.

**u bend**
Longer suction line for easier bulb placement.

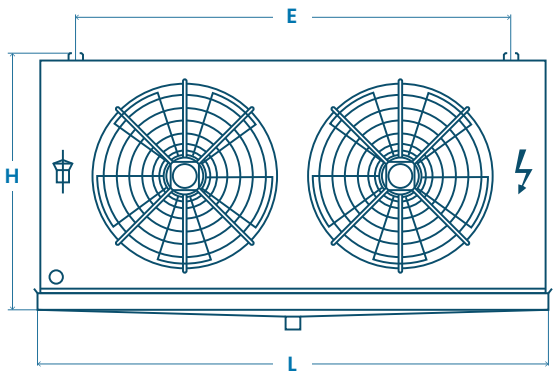
# specifications.

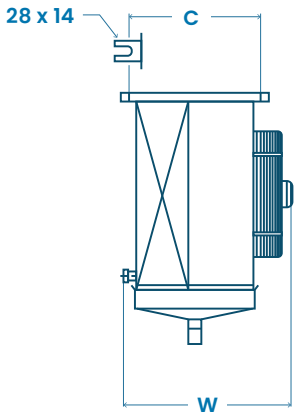
## medium temperature applications

| Product Code | Model | Nominal Capacity R448A | Fan | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Fan | Fan Dia. | Power | Volts | Air Flow | Air Vol | Air Throw |
| | | [W] | [Qty] | [mm] | [W] | [V] | [l/s] | [m3/h] | [m] |
| 3590001 | TEM-H-1.9/9-R | 1900 | 1 | 300 | 1 x 60 | 230 | 500 | 1 x 1800 | 8 |
| 3590002 | TEM-H-2.8/12-R | 2812 | 1 | 400 | 1 x 160 | 230 | 1176 | 1 x 4235 | 12 |
| 3590003 | TEM-H-3.8/19-R | 3800 | 2 | 300 | 2 x 60 | 230 | 1000 | 2 x 1800 | 10 |
| 3590004 | TEM-H-4.4/28-R | 4408 | 2 | 300 | 2 x 60 | 230 | 1000 | 2 x 1800 | 10 |
| 3590005 | TEM-H-5.6/22-R | 5624 | 2 | 400 | 2 x 160 | 230 | 2353 | 2 x 4235 | 14 |

## dimensional properties

| Product Code | Model | Dimension | | | | | Piping Connection | | Drain Size ID. (male BSP) | Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| | | L | H | W | C | E | Inlet | Outlet | | |
| | | [mm] | [mm] | [mm] | [mm] | [mm] | [inch] | [inch] | [inch] | [kg] |
| 3590001 | TEM-H-1.9/9-R | 785 | 500 | 460 | 390 | 477 | 1/2 | 5/8 | 1 | 17 |
| 3590002 | TEM-H-2.8/12-R | 865 | 630 | 550 | 450 | 565 | 1/2 | 5/8 | 1 | 25 |
| 3590003 | TEM-H-3.8/19-R | 1230 | 500 | 500 | 390 | 930 | 1/2 | 5/8 | 1 | 28 |
| 3590004 | TEM-H-4.4/28-R | 1230 | 500 | 500 | 390 | 930 | 1/2 | 5/8 | 1 | 32 |
| 3590005 | TEM-H-5.6/22-R | 1405 | 630 | 550 | 450 | 1105 | 1/2 | 5/8 | 1 | 41 |



# nominal capacity.

## medium temperature applications

| Capacity (W) | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Model** | **R448A** | **R452A** | **R449A** | **R404A** | **R134a** | **R450A** | **R513A** |
| **TEM-H-1.9/9-R** | 1900 | 1860 | 1900 | 2000 | 1820 | 1760 | 1820 |
| **TEM-H-2.8/12-R** | 2812 | 2753 | 2812 | 2960 | 2694 | 2605 | 2694 |
| **TEM-H-3.8/19-R** | 3800 | 3720 | 3800 | 4000 | 3640 | 3520 | 3640 |
| **TEM-H-4.4/28-R** | 4408 | 4315 | 4408 | 4640 | 4222 | 4083 | 4222 |
| **TEM-H-5.6/22-R** | 5624 | 5506 | 5624 | 5920 | 5387 | 5210 | 5387 |

Capacities based on EN328 Midpoint ratings SC2: Air inlet temp 2°C, Evaporating temp -4°C, 6K TD

| Correction Factors | | | | | | |
|---|---|---|---|---|---|---|
| **Suction Temperature (C)** | -16 | -11 | -6 | -4 | -1 | 4 |
| **Room Temperature (C)** | -10 | -5 | 0 | 2 | 5 | 10 |
| **Factor** | 0.89 | 0.91 | 0.94 | 1.00 | 1.10 | 1.10 |

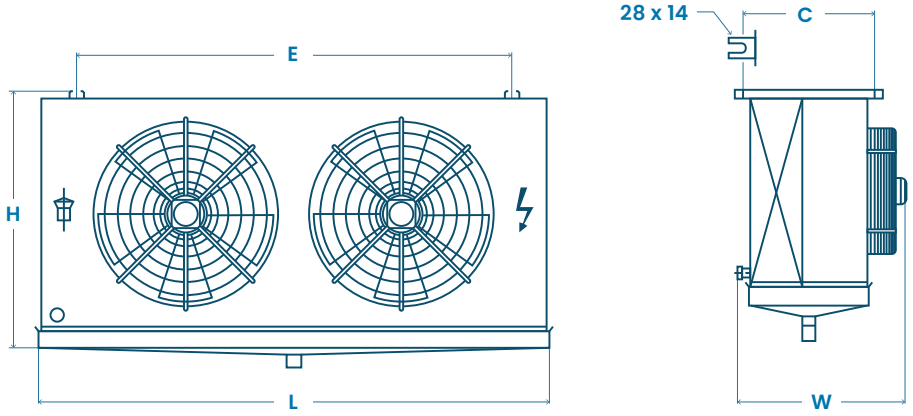
# specifications.

## low temperature applications

| Product Code | Model | Nominal Capacity R448A | Fan | | | | | | | Defrost Heater | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Fan | Fan Dia. | Power | Volts | Air Flow | Air Vol | Air Throw | Qty x Coil | Qty x Drain | Volt |
| | | [W] | [Qty] | [mm] | [W] | [V] | [l/s] | [m3/h] | [m] | [W] | [W] | [W] |
| 3509200 | TEM-L-1.8/10-R | 1794 | 2 | 300 | 2 x 60 | 230 | 1000 | 2 x 1800 | 9 | 2 x 850 | 1 x 850 | 220 |
| 3509201 | TEM-L-2.2/13-R | 2167 | 2 | 300 | 2 x 60 | 230 | 1000 | 2 x 1800 | 9 | 2 x 850 | 1 x 850 | 220 |
| 3509202 | TEM-L-3.2/15-R | 3214 | 2 | 400 | 2 x 160 | 230 | 2353 | 2 x 4235 | 14 | 2 x 1000 | 1 x 1000 | 220 |
| 3509203 | TEM-L-4.0/21-R | 3962 | 2 | 400 | 2 x 160 | 230 | 2353 | 2 x 4235 | 13 | 2 x 1000 | 1 x 1000 | 220 |
| 3509204 | TEM-L-4.9/31-R | 4933 | 2 | 400 | 2 x 160 | 230 | 2353 | 2 x 4235 | 12 | 4 x 1000 | 1 x 1000 | 220 |

## dimensional properties

| Product Code | Model | Dimension | | | | | Piping Connection | | Drain Size ID. (male BSP) | Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| | | L | H | W | C | E | Inlet | Outlet | | |
| | | [mm] | [mm] | [mm] | [mm] | [mm] | [inch] | [inch] | [inch] | [kg] |
| 3509200 | TEM-L-1.8/10-R | 1230 | 500 | 500 | 390 | 930 | 1/2 | 5/8 | 1 | 25 |
| 3509201 | TEM-L-2.2/13-R | 1230 | 500 | 500 | 390 | 930 | 1/2 | 5/8 | 1 | 28 |
| 3509202 | TEM-L-3.2/15-R | 1405 | 630 | 550 | 450 | 1105 | 1/2 | 5/8 | 1 | 36 |
| 3509203 | TEM-L-4.0/21-R | 1405 | 630 | 550 | 450 | 1105 | 1/2 | 5/8 | 1 | 43 |
| 3509204 | TEM-L-4.9/31-R | 1405 | 630 | 550 | 450 | 1105 | 1/2 | 5/8 | 1 | 45 |



# nominal capacity.

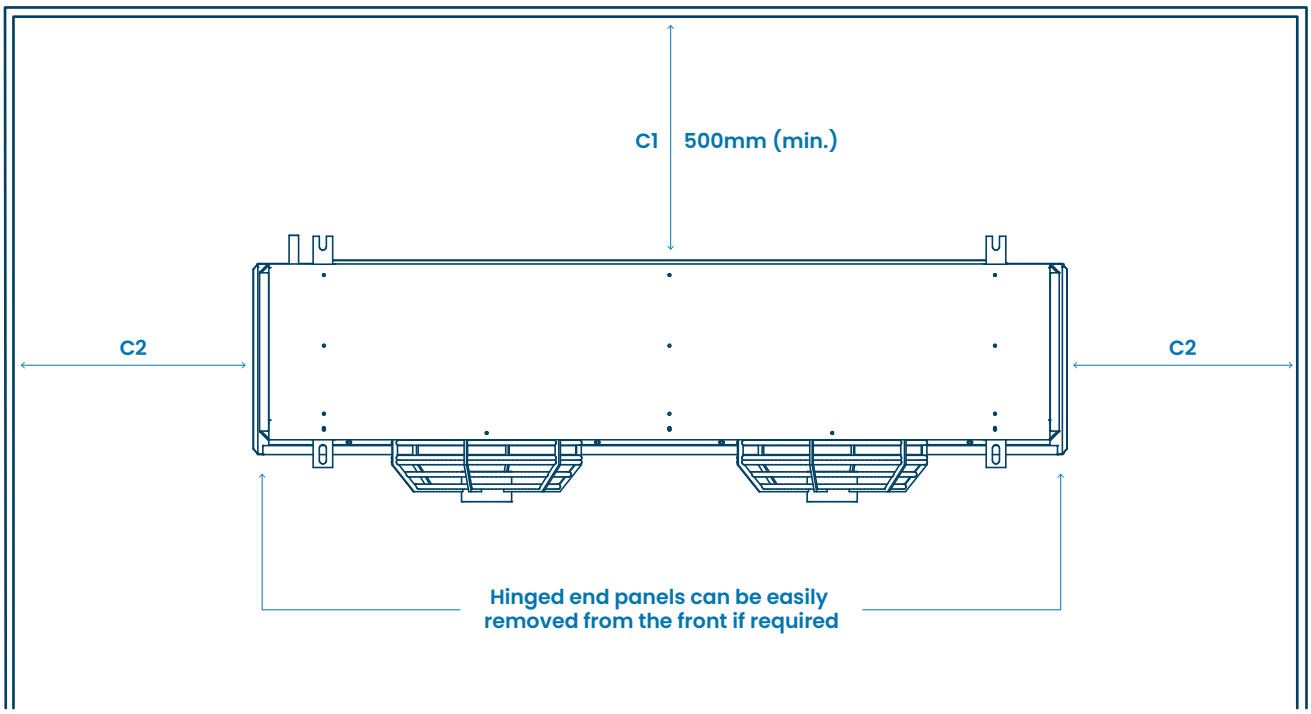
## low temperature applications

| | Capacity (W) | | | | | | |
|---|---|---|---|---|---|---|---|
| **Model** | **R448A** | **R452A** | **R449A** | **R404A** | **R134a** | **R450A** | **R513A** |
| **TEM-L-1.8/10-R** | 1794 | 1775 | 1775 | 1955 | 1605 | 1567 | 1624 |
| **TEM-L-2.2/13-R** | 2167 | 2145 | 2145 | 2362 | 1939 | 1894 | 1962 |
| **TEM-L-3.2/15-R** | 3214 | 3180 | 3180 | 3502 | 2875 | 2807 | 2909 |
| **TEM-L-4.0/21-R** | 3962 | 3920 | 3920 | 4317 | 3544 | 3461 | 3586 |
| **TEM-L-4.9/31-R** | 4933 | 4881 | 4881 | 5376 | 4414 | 4310 | 4466 |

Capacities based on EN328 Midpoint ratings SC2: Air inlet temp -18°C, Evaporating temp -24°C, 6K TD

| | Correction Factors | | | | | |
|---|---|---|---|---|---|---|
| **Suction Temperature (C)** | -36 | -31 | -26 | -24 | -21 | -16 |
| **Room Temperature (C)** | -30 | -25 | -20 | -18 | -15 | -10 |
| **Factor** | 0.95 | 0.96 | 0.99 | 1.00 | 1.02 | 1.05 |

# installation.




**installation spacing**
C1 – Distance between the wall and the air side of the coil is at least 500mm.
C2 – Allow space to open hinged panels, access TXV and other componentry.
Consider space required to remove heater elements (if fitted).

ACTROL.

**Visit www.actrol.com.au for your nearest branch.**

The manufacturer/distributor reserves the right to vary specifications or delete models from their range without prior notification. The manufacturer/distributor takes no responsibility for printing errors.
All dimensions are nominal only.

V2 [BROCHURE CODE: 2110999]

tecumseh | ACTROL™