

# UNIT COOLER<sub>(v2)</sub>

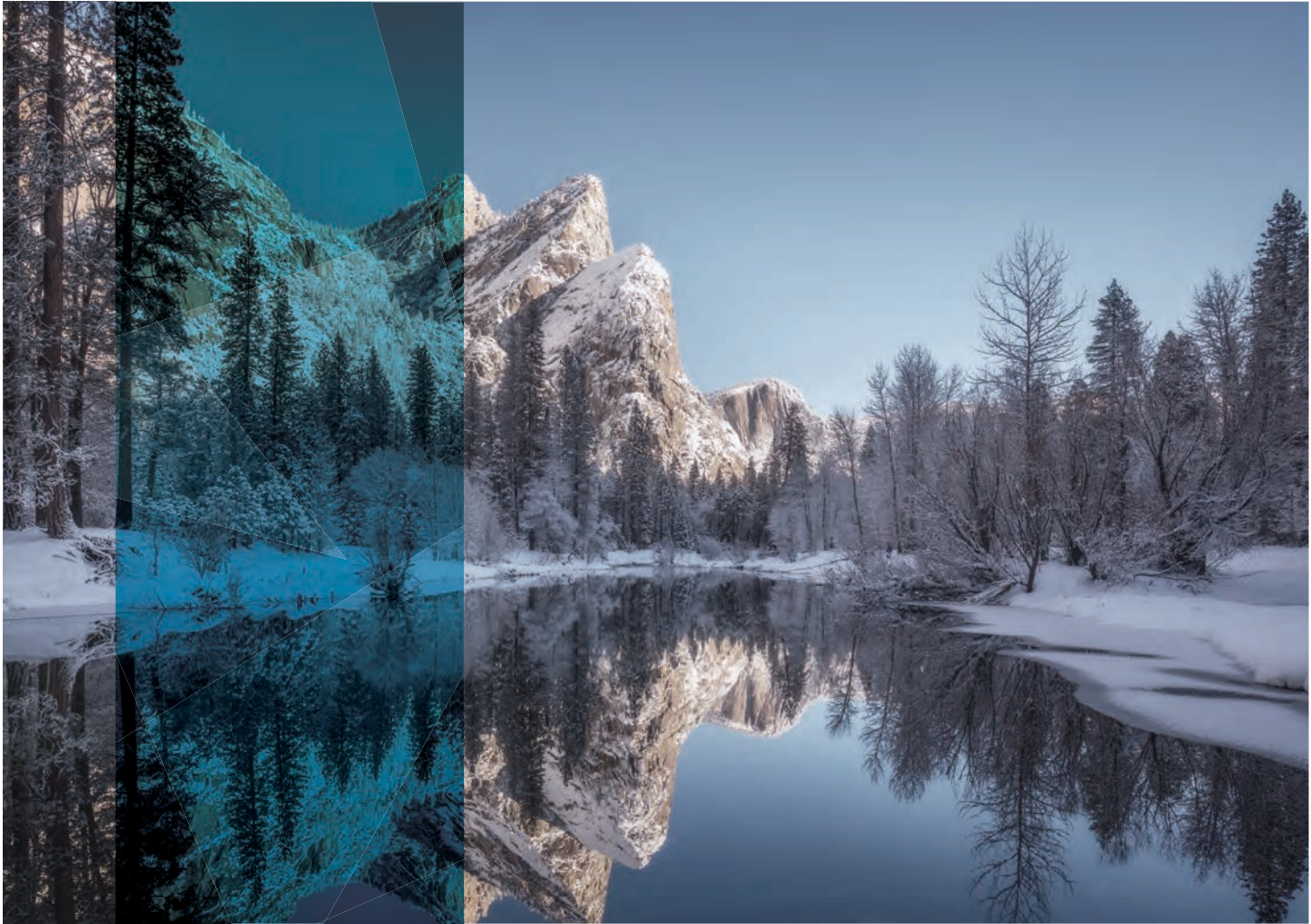
The Perfect Complement



## PRODUCT CATALOGUE 2022

 **Tecumseh**  
*Cooling For a Better Tomorrow™*

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# Introduction

Founded in 1934, Tecumseh Products Company has consistently been a global leader of commercial refrigeration technology. Tecumseh offers high quality products which are able to provide the highly valued solutions to our customers. Aside that, our employees located globally design and manufacture innovative refrigeration and air-conditioning products for the people around the world.

## Benefits To Meet Market Demands

| COMPACT                                                                                                                                             | WIDE RANGE OF OFFERING                                                                                                                         | EXCELLENCE PERFORMANCE                                                                                                         | EASY INSTALLATION & MAINTENANCE                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Tecumseh Unit Cooler's compact design is an added bonus for space-conscious environment without affecting the cooling capacity optimum performance. | Tecumseh Unit Cooler offers a wide range of cooling capacity to ensure the best solution for high temperature and low temperature application. | With excellence heat exchange efficiency and homogeneous air circulation, goods will now be preserved under better conditions. | Light in weight and easy access side panel are crucial points which will greatly reduce installation, servicing and maintenance jobs. |

## Nomenclature (Commercial Application)

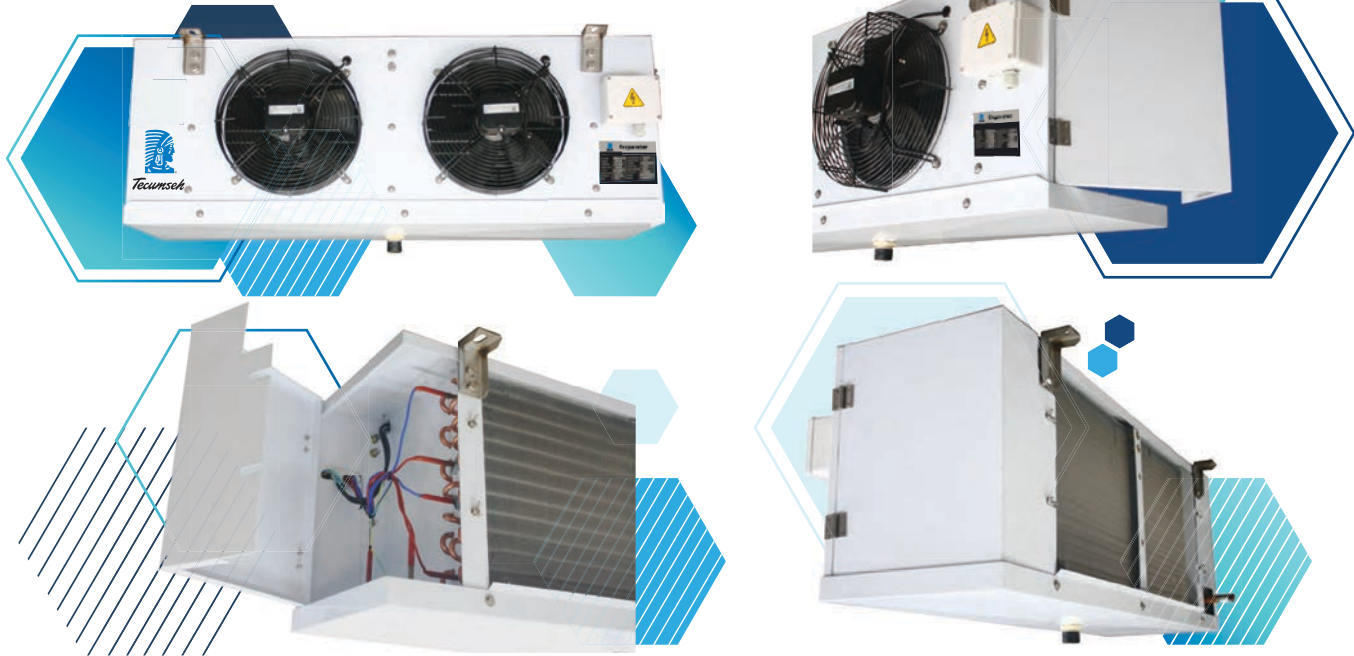
|                      |   |             |   |                      |   |                            |             |
|----------------------|---|-------------|---|----------------------|---|----------------------------|-------------|
| TEM                  | - | H           | - | 4.0                  | / | 14                         | -D          |
| Tecumseh Unit Cooler | - | Application | - | Rated Capacity in kW | / | Heat Exchange Surface (m²) | Hinged Door |

| Applications Parameters |             |                  |
|-------------------------|-------------|------------------|
| Code                    | Application | Fin Spacing (mm) |
| H                       | High Temp.  | 4                |
| L                       | Low Temp.   | 6                |



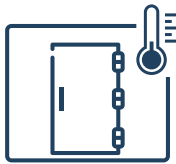
# UC<sup>2</sup> SERIES

(Commercial Application)



## Applications

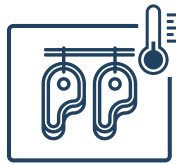
Tecumseh Unit Coolers are suitable for common applications:



Walk-in Cooler Rooms



Walk-in Freezer Rooms



Food Processing Rooms



Preparation Rooms

## Product Features

### Capacity

High Temp Application: 2.5 to 57.4kW  
Low Temp Application: 2.4 to 30kW

### Fan Diameter

Available fan size of 300mm, 400mm  
& 500mm for 50/60Hz application

### Side Panel

Hinged door access for easy  
installation and servicing

### Defrosting Heater

Electrical Coils & Drain Pan heater are  
wired in enclosed junction box

### Casing

Made of Premium Aluminum

### Fins Spacing

Wide selection to minimize  
defrosting cycles

### Refrigerant

R-404A / R-134a / R507

### Drain Pan

Hinged Type for easy cleaning

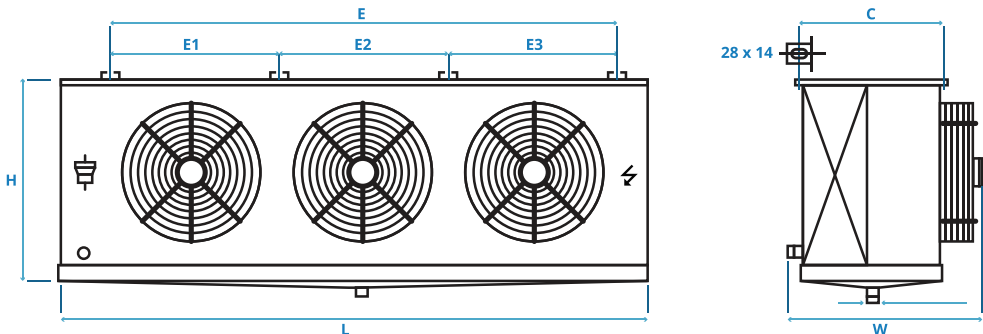
# Dimension Specification

(Unit Cooler)

Specification drawing is for reference only, for detail information please refer to our staffs.

| High Temperature Application |                |     |     |     |      |                                  |                   |                  |                          |             |
|------------------------------|----------------|-----|-----|-----|------|----------------------------------|-------------------|------------------|--------------------------|-------------|
| Unit Coolers                 | Dimension (mm) |     |     |     |      | Pipe Location<br>(View From Fan) | Piping Connection |                  | Drain Size ID.<br>(Inch) | Weight (kg) |
| Model                        | L              | H   | W   | C   | E    |                                  | Inlet OD (inch)   | Outlet OD (inch) |                          |             |
| TEM-H-2.5/9-D                | 777            | 500 | 500 | 390 | 477  | Left                             | 1/2               | 5/8              | 1                        | 16          |
| TEM-H-4.0/14-D               | 1230           | 500 | 500 | 390 | 930  | Left                             | 1/2               | 5/8              | 1                        | 25          |
| TEM-H-5.0/19-D               | 1230           | 500 | 500 | 390 | 930  | Left                             | 1/2               | 5/8              | 1                        | 28          |
| TEM-H-7.4/22-D               | 1405           | 630 | 550 | 450 | 1105 | Left                             | 1/2               | 5/8              | 1                        | 37          |
| TEM-H-9.0/30-D               | 1405           | 630 | 550 | 450 | 1105 | Left                             | 1/2               | 5/8              | 1                        | 43          |
| TEM-H-10.5/45-D              | 1405           | 630 | 550 | 450 | 1105 | Left                             | 5/8               | 7/8              | 1                        | 46          |
| TEM-H-16.2/80-D              | 2012           | 735 | 635 | 435 | 1650 | Right                            | 5/8               | 1-1/4            | 1                        | 80          |
| TEM-H-21.3/105-D             | 2012           | 735 | 635 | 435 | 1650 | Right                            | 5/8               | 1-1/4            | 1                        | 89          |
| TEM-H-25.0/125-D             | 2810           | 737 | 635 | 435 | 2450 | Right                            | 3/4               | 1-1/2            | 1                        | 111         |
| TEM-H-32.6/160-D             | 2810           | 737 | 635 | 435 | 2450 | Right                            | 3/4               | 1-1/2            | 1                        | 119         |
| TEM-H-37.6/185-D             | 3610           | 737 | 635 | 435 | 3250 | Right                            | 3/4               | 1-7/8            | 1-1/2                    | 130         |
| TEM-H-42.7/210-D             | 3610           | 737 | 635 | 435 | 3250 | Right                            | 3/4               | 1-7/8            | 1-1/2                    | 145         |
| TEM-H-57.4/280-D             | 3610           | 840 | 725 | 525 | 3250 | Right                            | 7/8               | 1-7/8            | 1-1/2                    | 195         |

| Low Temperature Application |                |     |     |     |      |                                  |                   |                  |                          |             |
|-----------------------------|----------------|-----|-----|-----|------|----------------------------------|-------------------|------------------|--------------------------|-------------|
| Unit Coolers                | Dimension (mm) |     |     |     |      | Pipe Location<br>(View From Fan) | Piping Connection |                  | Drain Size ID.<br>(Inch) | Weight (kg) |
| Model                       | L              | H   | W   | C   | E    |                                  | Inlet OD (inch)   | Outlet OD (inch) |                          |             |
| TEM-L-2.4/10-D              | 1230           | 500 | 500 | 390 | 930  | Left                             | 1/2               | 5/8              | 1                        | 25          |
| TEM-L-2.9/13-D              | 1230           | 500 | 500 | 390 | 930  | Left                             | 1/2               | 5/8              | 1                        | 28          |
| TEM-L-4.3/15-D              | 1405           | 630 | 550 | 450 | 1105 | Left                             | 1/2               | 5/8              | 1                        | 36          |
| TEM-L-5.3/21-D              | 1405           | 630 | 550 | 450 | 1105 | Left                             | 1/2               | 5/8              | 1                        | 43          |
| TEM-L-6.6/31-D              | 1405           | 630 | 550 | 450 | 1105 | Left                             | 5/8               | 7/8              | 1                        | 45          |
| TEM-L-11.2/60-D             | 2012           | 735 | 635 | 435 | 1650 | Right                            | 5/8               | 1-1/4            | 1                        | 80          |
| TEM-L-14.9/80-D             | 2012           | 735 | 635 | 435 | 1650 | Right                            | 5/8               | 1-1/4            | 1                        | 89          |
| TEM-L-18.7/100-D            | 2810           | 737 | 635 | 435 | 2450 | Right                            | 3/4               | 1-1/2            | 1                        | 111         |
| TEM-L-22.4/120-D            | 2810           | 737 | 635 | 435 | 2450 | Right                            | 3/4               | 1-1/2            | 1                        | 119         |
| TEM-L-26.2/140-D            | 3610           | 737 | 635 | 435 | 3250 | Right                            | 3/4               | 1-7/8            | 1-1/2                    | 130         |
| TEM-L-30.0/160-D            | 3610           | 737 | 635 | 435 | 3250 | Right                            | 3/4               | 1-7/8            | 1-1/2                    | 145         |



# Technical Data

Nominal Capacity rated at room temperature (Troom) of 0°C, evaporating temperature (Tevp) of -8°C.  
Air throw is for reference purpose only.

The actual air throw will be affected by the arrangement of the unit coolers or the placement of the goods.

| High Temperature Application (Frequency: 50Hz) |                     |             |                   |            |          |                 |               |                 |                      |          |                                      |
|------------------------------------------------|---------------------|-------------|-------------------|------------|----------|-----------------|---------------|-----------------|----------------------|----------|--------------------------------------|
| Unit Coolers                                   |                     | Fan         |                   |            |          |                 |               | Defrost Heater  |                      |          | Condensing Units                     |
| Model                                          | Normal Capacity (W) | Qty. of Fan | Fan Diameter (mm) | Power (kW) | Volt (V) | Air Flow (m³/h) | Air Throw (m) | Qty x Coil (kW) | Qty x Drain Pan (kW) | Volt (V) | Model                                |
| TEM-H-2.5/9-D                                  | 2500                | 1           | 300               | 1 x 0.06   | 230      | 1 x 1800        | 8             | 2 x 0.75        | 1 x 1.00             | 220      | PACS/PAC4517Z                        |
| TEM-H-4.0/14-D                                 | 4000                | 2           | 300               | 2 x 0.06   | 230      | 2 x 1800        | 9             | 2 x 0.90        | 1 x 1.20             | 220      | PACS/PAC4519Z<br>PACS/PAC4524Z       |
| TEM-H-5.0/19-D                                 | 5000                | 2           | 300               | 2 x 0.06   | 230      | 2 x 1800        | 10            | 2 x 0.90        | 1 x 1.20             | 220      | PACS/PAC4531Z                        |
| TEM-H-7.4/22-D                                 | 7400                | 2           | 400               | 2 x 0.16   | 230      | 2 x 4235        | 14            | 2 x 0.90        | 1 x 1.20             | 220      | PACS/PAC4540Z<br>PAC4546Z            |
| TEM-H-9.0/30-D                                 | 9000                | 2           | 400               | 2 x 0.16   | 230      | 2 x 4235        | 13            | 2 x 0.90        | 1 x 1.20             | 220      | PAC4553Z<br>PAC4561Z                 |
| TEM-H-10.5/45-D                                | 10500               | 2           | 400               | 2 x 0.16   | 230      | 2 x 4235        | 12            | 4 x 0.95        | 1 x 1.20             | 220      | PAC4568Z<br>PAC4573Z                 |
| TEM-H-16.2/80-D                                | 18409               | 2           | 500               | 2 x 0.55   | 380      | 2 x 6300        | 15            | 3 x 1.55        | 1 x 1.72             | 220      | PAC4581Z<br>SHT4576ZHR<br>SHT4591ZHR |
| TEM-H-21.3/105-D                               | 24205               | 2           | 500               | 2 x 0.55   | 380      | 2 x 6300        | 15            | 3 x 1.55        | 1 x 1.72             | 220      | SHT4610ZHR<br>SHT4612ZHR             |
| TEM-H-25.0/125-D                               | 28409               | 3           | 500               | 3 x 0.55   | 380      | 3 x 6300        | 15            | 3 x 2.27        | 1 x 2.44             | 220      | SHT4615ZHR                           |
| TEM-H-32.6/160-D                               | 37045               | 3           | 500               | 3 x 0.55   | 380      | 3 x 6300        | 15            | 3 x 2.27        | 1 x 2.44             | 220      | SHT4620ZHR                           |
| TEM-H-37.6/185-D                               | 42727               | 4           | 500               | 4 x 0.55   | 380      | 4 x 6300        | 15            | 3 x 2.99        | 1 x 3.02             | 220      | SHT4622ZHR                           |
| TEM-H-42.7/210-D                               | 48523               | 4           | 500               | 4 x 0.55   | 380      | 4 x 6300        | 15            | 3 x 2.99        | 1 x 3.02             | 220      | SHT4627ZHR                           |
| TEM-H-57.4/280-D                               | 65227               | 4           | 500               | 4 x 0.55   | 380      | 4 x 6300        | 15            | 4 x 3.01        | 1 x 3.02             | 220      | SHT4632ZHR                           |

| Low Temperature Application (Frequency: 50Hz) |                     |             |                   |            |          |                 |               |                 |                      |          |                          |
|-----------------------------------------------|---------------------|-------------|-------------------|------------|----------|-----------------|---------------|-----------------|----------------------|----------|--------------------------|
| Unit Coolers                                  |                     | Fan         |                   |            |          |                 |               | Defrost Heater  |                      |          | Condensing Units         |
| Model                                         | Normal Capacity (W) | Qty. of Fan | Fan Diameter (mm) | Power (kW) | Volt (V) | Air Flow (m³/h) | Air Throw (m) | Qty x Coil (kW) | Qty x Drain Pan (kW) | Volt (V) | Model                    |
| TEM-L-2.4/10-D                                | 3008                | 2           | 300               | 2 x 0.06   | 230      | 2 x 1800        | 9             | 2 x 0.70        | 1 x 1.00             | 220      | PACS/PAC2480Z            |
| TEM-L-2.9/13-D                                | 3634                | 2           | 300               | 2 x 0.06   | 230      | 2 x 1800        | 9             | 2 x 0.70        | 1 x 1.00             | 220      | PACS/PAC2511Z            |
| TEM-L-4.3/15-D                                | 5388                | 2           | 400               | 2 x 0.16   | 230      | 2 x 4235        | 14            | 2 x 0.90        | 1 x 1.20             | 220      | PAC2513Z<br>PAC2516Z     |
| TEM-L-5.3/21-D                                | 6642                | 2           | 400               | 2 x 0.16   | 230      | 2 x 4235        | 13            | 2 x 0.90        | 1 x 1.20             | 220      | PAC2522Z<br>PAC2525Z     |
| TEM-L-6.6/31-D                                | 8271                | 2           | 400               | 2 x 0.16   | 230      | 2 x 4235        | 12            | 4 x 0.95        | 1 x 1.20             | 220      | SHT2534ZBR               |
| TEM-L-11.2/60-D                               | 14035               | 2           | 500               | 2 x 0.55   | 380      | 2 x 4235        | 15            | 4 x 1.55        | 1 x 1.72             | 220      | SHT2542ZBR<br>SHT2552ZBR |
| TEM-L-14.9/80-D                               | 18672               | 2           | 500               | 2 x 0.55   | 380      | 2 x 6300        | 15            | 4 x 1.55        | 1 x 1.72             | 220      | SHT2568ZBR               |
| TEM-L-18.7/100-D                              | 23434               | 3           | 500               | 3 x 0.55   | 380      | 3 x 6300        | 15            | 4 x 2.27        | 1 x 2.44             | 220      | SHT2575ZBR               |
| TEM-L-22.4/120-D                              | 28070               | 3           | 500               | 3 x 0.55   | 380      | 3 x 6300        | 15            | 4 x 2.27        | 1 x 2.44             | 220      | SHT2610ZBR               |
| TEM-L-26.2/140-D                              | 32832               | 4           | 500               | 4 x 0.55   | 380      | 3 x 6300        | 15            | 4 x 2.99        | 1 x 3.02             | 220      | SHT2614ZBR               |
| TEM-L-30.0/160-D                              | 37594               | 4           | 500               | 4 x 0.55   | 380      | 4 x 6300        | 15            | 4 x 2.99        | 1 x 3.02             | 220      | SHT2615ZBR               |

# Technical Data

Nominal Capacity rated at room temperature (Troom) of 0°C, evaporating temperature (Tevp) of -8°C.  
Air throw is for reference purpose only.

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| High Temperature Application (Frequency: 60Hz) |                     |             |                   |            |          |                 |               |                 |                      |          |                                                              |
|------------------------------------------------|---------------------|-------------|-------------------|------------|----------|-----------------|---------------|-----------------|----------------------|----------|--------------------------------------------------------------|
| Unit Coolers                                   |                     | Fan         |                   |            |          |                 |               | Defrost Heater  |                      |          | Condensing Units                                             |
| Model                                          | Normal Capacity (W) | Qty. of Fan | Fan Diameter (mm) | Power (kW) | Volt (V) | Air Flow (m³/h) | Air Throw (m) | Qty x Coil (kW) | Qty x Drain Pan (kW) | Volt (V) | Model                                                        |
| TEM-H-4.0/14-D                                 | 4042                | 2           | 300               | 2 x 0.10   | 230      | 2 x 1800        | 9             | 2 x 0.90        | 1 x 1.20             | 220      | PACS/PAC4517Z<br>PACS/PAC4519Z                               |
| TEM-H-5.0/19-D                                 | 5053                | 2           | 300               | 2 x 0.10   | 230      | 2 x 1800        | 9             | 2 x 0.90        | 1 x 1.20             | 220      | PACS/PAC4524Z                                                |
| TEM-H-7.4/22-D                                 | 7478                | 2           | 400               | 2 x 0.25   | 230      | 2 x 3911        | 14            | 2 x 0.90        | 1 x 1.20             | 220      | PACS/PAC4531Z<br>PACS/PAC4540Z<br>PAC4546Z                   |
| TEM-H-9.0/30-D                                 | 9095                | 2           | 400               | 2 x 0.25   | 230      | 2 x 3911        | 13            | 2 x 0.90        | 1 x 1.20             | 220      | PAC4553Z                                                     |
| TEM-H-10.5/45-D                                | 10611               | 2           | 400               | 2 x 0.25   | 230      | 2 x 3911        | 12            | 4 x 0.95        | 1 x 1.20             | 220      | PAC4561Z                                                     |
| TEM-H-16.2/80-D                                | 19378               | 2           | 500               | 2 x 0.76   | 480      | 2 x 7000        | 15            | 3 x 1.55        | 1 x 1.72             | 220      | PAC4568Z<br>PAC4573Z<br>PAC4581Z<br>SHT4576ZHR<br>SHT4591ZHR |
| TEM-H-21.3/105-D                               | 25479               | 2           | 500               | 2 x 0.76   | 480      | 2 x 7000        | 15            | 3 x 1.55        | 1 x 1.72             | 220      | SHT4610ZHR<br>SHT4612ZHR                                     |
| TEM-H-25.0/125-D                               | 29904               | 3           | 500               | 3 x 0.76   | 480      | 3 x 7000        | 15            | 3 x 2.27        | 1 x 2.44             | 220      | SHT4615ZHR                                                   |
| TEM-H-32.6/160-D                               | 38995               | 3           | 500               | 3 x 0.76   | 480      | 3 x 7000        | 15            | 3 x 2.27        | 1 x 2.44             | 220      | SHT4620ZHR                                                   |
| TEM-H-37.6/185-D                               | 44976               | 4           | 500               | 3 x 0.76   | 480      | 4 x 7000        | 15            | 3 x 2.99        | 1 x 3.02             | 220      | SHT4622ZHR                                                   |
| TEM-H-42.7/210-D                               | 51077               | 4           | 500               | 4 x 0.76   | 480      | 4 x 7000        | 15            | 3 x 2.99        | 1 x 3.02             | 220      | SHT4627ZHR                                                   |
| TEM-H-57.4/280-D                               | 68660               | 4           | 500               | 4 x 0.76   | 480      | 4 x 7000        | 15            | 4 x 3.01        | 1 x 3.02             | 220      | SHT4632ZHR                                                   |

| Low Temperature Application (Frequency: 60Hz) |                     |             |                   |            |          |                 |               |                 |                      |          |                          |
|-----------------------------------------------|---------------------|-------------|-------------------|------------|----------|-----------------|---------------|-----------------|----------------------|----------|--------------------------|
| Unit Coolers                                  |                     | Fan         |                   |            |          |                 |               | Defrost Heater  |                      |          | Condensing Units         |
| Model                                         | Normal Capacity (W) | Qty. of Fan | Fan Diameter (mm) | Power (kW) | Volt (V) | Air Flow (m³/h) | Air Throw (m) | Qty x Coil (kW) | Qty x Drain Pan (kW) | Volt (V) | Model                    |
| TEM-L-2.4/10-D                                | 3040                | 2           | 300               | 2 x 0.10   | 230      | 2 x 1800        | 9             | 2 x 0.70        | 1 x 1.00             | 220      | PACS/PAC2480Z            |
| TEM-L-2.9/13-D                                | 3672                | 2           | 300               | 2 x 0.10   | 230      | 2 x 1800        | 9             | 2 x 0.70        | 1 x 1.00             | 220      | PACS/PAC2511Z            |
| TEM-L-4.3/15-D                                | 5445                | 2           | 400               | 2 x 0.25   | 230      | 2 x 3911        | 14            | 2 x 0.90        | 1 x 1.20             | 220      | PAC2513Z<br>PAC2516Z     |
| TEM-L-5.3/21-D                                | 6712                | 2           | 400               | 2 x 0.25   | 230      | 2 x 3911        | 13            | 2 x 0.90        | 1 x 1.20             | 220      | PAC2522Z                 |
| TEM-L-6.6/31-D                                | 8358                | 2           | 400               | 2 x 0.25   | 230      | 2 x 3911        | 12            | 4 x 0.95        | 1 x 1.20             | 220      | PAC2525Z                 |
| TEM-L-11.2/60-D                               | 14774               | 2           | 500               | 2 x 0.76   | 480      | 2 x 7000        | 15            | 4 x 1.55        | 1 x 1.72             | 220      | SHT2534ZBR<br>SHT2542ZBR |
| TEM-L-14.9/80-D                               | 19655               | 2           | 500               | 2 x 0.76   | 480      | 2 x 7000        | 15            | 4 x 1.55        | 1 x 1.72             | 220      | SHT2552ZBR               |
| TEM-L-18.7/100-D                              | 24667               | 3           | 500               | 3 x 0.76   | 480      | 3 x 7000        | 15            | 4 x 2.27        | 1 x 2.44             | 220      | SHT2568ZBR               |
| TEM-L-22.4/120-D                              | 29547               | 3           | 500               | 3 x 0.76   | 480      | 3 x 7000        | 15            | 4 x 2.27        | 1 x 2.44             | 220      | SHT2575ZBR               |
| TEM-L-26.2/140-D                              | 34560               | 4           | 500               | 4 x 0.76   | 480      | 4 x 7000        | 15            | 4 x 2.99        | 1 x 3.02             | 220      | SHT2610ZBR               |
| TEM-L-30.0/160-D                              | 39573               | 4           | 500               | 4 x 0.76   | 480      | 4 x 7000        | 15            | 4 x 2.99        | 1 x 3.02             | 220      | SHT2614ZBR               |



# Industrial Evaporator Series



## Features & Benefits

- Industrial Series focus on bigger fan size and higher airflow
- Better fin spacing designed to reduce the effect of frosting process
- Suitable for heavy duty application

## Nomenclature (Industrial Application)

|                         |   |             |   |                         |   |                                            |
|-------------------------|---|-------------|---|-------------------------|---|--------------------------------------------|
| TEM                     | - | XL          | - | 11.5                    | / | 79                                         |
| Tecumseh<br>Unit Cooler | - | Application | - | Rated Capacity<br>in kW | / | Heat Exchange<br>Surface (m <sup>2</sup> ) |

### Applications Parameters

| Code | Application | Fin Spacing (mm) |
|------|-------------|------------------|
| XH   | High Temp   | 7                |
| XL   | Low Temp    | 8/16             |

## Technical Data

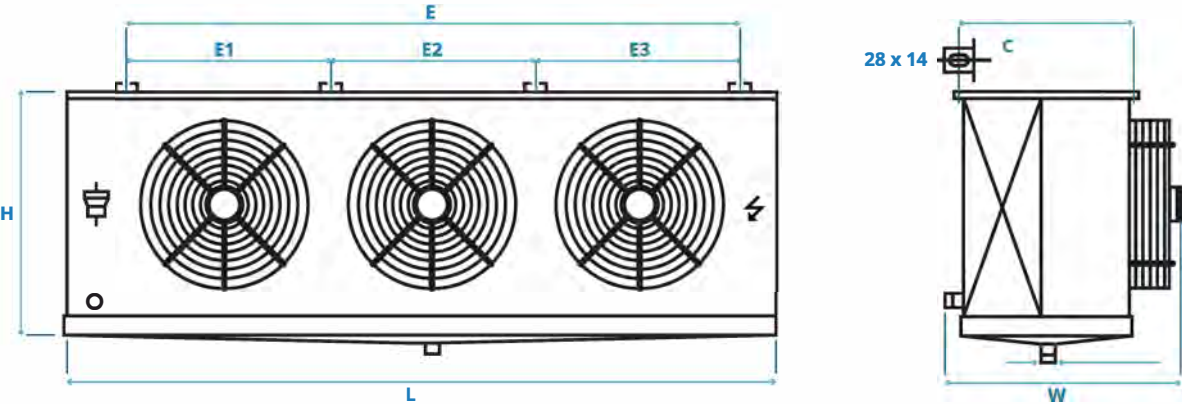
| Model           | Cooling Capacity(W)<br>Tevp: -8°C ; ΔT:8K | Cooling Capacity(W)<br>Tevp: -25°C ; ΔT:7K | Fin Spacing<br>(mm) | Fan |             |               |             |                                    |                     | Defrost Heater            |                            |
|-----------------|-------------------------------------------|--------------------------------------------|---------------------|-----|-------------|---------------|-------------|------------------------------------|---------------------|---------------------------|----------------------------|
|                 |                                           |                                            |                     | Qty | Dia<br>(mm) | Power<br>(kW) | Volt<br>(V) | Air<br>Flow<br>(m <sup>3</sup> /h) | Air<br>Throw<br>(m) | Qty x<br>Coll Pan<br>(kW) | Qty x<br>Drain Pan<br>(kW) |
| TEM-XH-11.0/46  | 17000                                     | 11000                                      | 7                   | 2   | 500         | 2 x 0.82      | 380         | 15000                              | 24                  | 4 x 1.6                   | 1 x 1.6                    |
| TEM-XH-14.5/57  | 22000                                     | 14500                                      | 7                   | 2   | 500         | 2 x 0.82      | 380         | 13600                              | 23                  | 4 x 1.6                   | 1 x 1.6                    |
| TEM-XH-17.0/80  | 25100                                     | 17000                                      | 7                   | 2   | 500         | 2 x 0.82      | 380         | 12400                              | 22                  | 4 x 1.6                   | 1 x 1.6                    |
| TEM-XH-21.0/102 | 32200                                     | 21000                                      | 7                   | 3   | 500         | 3 x 0.82      | 380         | 20400                              | 24                  | 4 x 2.3                   | 1 x 2.3                    |
| TEM-XH-24.3/136 | 36900                                     | 24300                                      | 7                   | 3   | 500         | 3 x 0.82      | 380         | 18600                              | 23                  | 4 x 2.3                   | 1 x 2.3                    |
| TEM-XH-29.0/128 | 42900                                     | 29000                                      | 7                   | 4   | 500         | 4 x 0.82      | 380         | 26000                              | 25                  | 4 x 2.8                   | 1 x 2.8                    |
| TEM-XH-33.7/170 | 48700                                     | 33700                                      | 7                   | 4   | 500         | 4 x 0.82      | 380         | 23800                              | 24                  | 4 x 2.8                   | 1 x 2.8                    |
| TEM-XH-26.2/122 | 40300                                     | 26200                                      | 7                   | 2   | 630         | 2 x 2.63      | 380         | 27000                              | 28                  | 6 x 2.3                   | 1 x 2.3                    |
| TEM-XH-31.1/163 | 47100                                     | 31100                                      | 7                   | 2   | 630         | 2 x 2.63      | 380         | 25000                              | 25                  | 6 x 2.3                   | 1 x 2.3                    |
| TEM-XH-40.1/153 | 61500                                     | 40100                                      | 7                   | 3   | 630         | 3 x 2.63      | 380         | 40500                              | 28                  | 6 x 2.8                   | 1 x 2.8                    |
| TEM-XH-47.6/204 | 71400                                     | 47600                                      | 7                   | 3   | 630         | 3 x 2.63      | 380         | 37500                              | 26                  | 6 x 2.8                   | 1 x 2.8                    |

| Model           | Cooling Capacity(W)<br>Tevp: -40°C ; ΔT:6K | Cooling Capacity(W)<br>Tevp: -31°C ; ΔT:6K | Fin Spacing<br>(mm) | Fan |             |               |             |                                    |                     | Defrost Heater            |                            |
|-----------------|--------------------------------------------|--------------------------------------------|---------------------|-----|-------------|---------------|-------------|------------------------------------|---------------------|---------------------------|----------------------------|
|                 |                                            |                                            |                     | Qty | Dia<br>(mm) | Power<br>(kW) | Volt<br>(V) | Air<br>Flow<br>(m <sup>3</sup> /h) | Air<br>Throw<br>(m) | Qty x<br>Coll Pan<br>(kW) | Qty x<br>Drain Pan<br>(kW) |
| TEM-XL-8.2/45   | 8200                                       | 10200                                      | 8/16                | 2   | 500         | 2 x 0.82      | 380         | 13800                              | 24                  | 5 x 1.6                   | 1 x 1.8                    |
| TEM-XL-11.5/79  | 11500                                      | 14800                                      | 8/16                | 3   | 500         | 3 x 0.82      | 380         | 20700                              | 25                  | 5 x 2.3                   | 1 x 2.6                    |
| TEM-XL-13.9/106 | 13900                                      | 17800                                      | 8/16                | 3   | 500         | 3 x 0.82      | 380         | 18900                              | 24                  | 5 x 2.3                   | 1 x 2.6                    |
| TEM-XL-16.8/93  | 16800                                      | 20500                                      | 8/16                | 4   | 500         | 4 x 0.82      | 380         | 26800                              | 26                  | 5 x 2.8                   | 1 x 3.2                    |
| TEM-XL-20.6/125 | 20600                                      | 24300                                      | 8/16                | 4   | 500         | 4 x 0.82      | 380         | 24200                              | 25                  | 5 x 2.8                   | 1 x 3.2                    |
| TEM-XL-16.1/95  | 16100                                      | 16600                                      | 8/16                | 2   | 630         | 2 x 2.63      | 380         | 27600                              | 27                  | 6 x 2.3                   | 1 x 2.6                    |
| TEM-XL-16.6/127 | 16600                                      | 20000                                      | 8/16                | 2   | 630         | 2 x 2.63      | 380         | 25400                              | 24                  | 6 x 2.3                   | 1 x 2.6                    |
| TEM-XL-20.8/120 | 20800                                      | 25500                                      | 8/16                | 3   | 630         | 3 x 2.63      | 380         | 41400                              | 28                  | 6 x 2.8                   | 1 x 3.2                    |
| TEM-XL-25.7/160 | 25700                                      | 30800                                      | 8/16                | 3   | 630         | 3 x 2.63      | 380         | 38100                              | 25                  | 6 x 2.8                   | 1 x 3.2                    |
| TEM-XL-22.0/145 | 22000                                      | 27000                                      | 8/16                | 2   | 800         | 2 x 1.94      | 380         | 36000                              | 25                  | 6 x 2.8                   | 1 x 3.1                    |
| TEM-XL-23.8/193 | 23800                                      | 29000                                      | 8/16                | 2   | 800         | 2 x 1.94      | 380         | 33000                              | 25                  | 6 x 2.8                   | 1 x 3.1                    |
| TEM-XL-30.6/217 | 30600                                      | 37000                                      | 8/16                | 3   | 800         | 3 x 1.94      | 380         | 45600                              | 25                  | 6 x 3.1                   | 1 x 3.4                    |
| TEM-XL-33.5/290 | 33500                                      | 40800                                      | 8/16                | 3   | 800         | 3 x 1.94      | 380         | 41100                              | 25                  | 6 x 3.1                   | 1 x 3.4                    |



# Technical Data

| Model           | Dimension (mm) |      |     |     |      | Coonection Size |        |       | Weight (kg) |
|-----------------|----------------|------|-----|-----|------|-----------------|--------|-------|-------------|
|                 | L              | H    | W   | C   | E    | Inlet           | Outlet | Drain |             |
| TEM-XH-11.0/46  | 1990           | 700  | 850 | 590 | 1647 | 5/8             | 1-3/8  | 1-1/2 | 157         |
| TEM-XH-14.5/57  | 1990           | 700  | 850 | 590 | 1647 | 5/8             | 1-3/8  | 1-1/2 | 175         |
| TEM-XH-17.0/80  | 1990           | 700  | 850 | 590 | 1647 | 7/8             | 1-5/8  | 1-1/2 | 195         |
| TEM-XH-21.0/102 | 2770           | 850  | 700 | 590 | 2427 | 7/8             | 1-5/8  | 1-1/2 | 250         |
| TEM-XH-24.3/136 | 2770           | 850  | 700 | 590 | 2427 | 7/8             | 1-5/8  | 1-1/2 | 280         |
| TEM-XH-29.0/128 | 3375           | 850  | 700 | 590 | 3027 | 1-1/8           | 2-1/8  | 1-1/2 | 315         |
| TEM-XH-33.7/170 | 3375           | 850  | 700 | 590 | 3027 | 1-1/8           | 2-1/8  | 1-1/2 | 350         |
| TEM-XH-26.2/122 | 2770           | 1000 | 720 | 590 | 2427 | 1-1/8           | 2-1/8  | 2     | 240         |
| TEM-XH-31.1/163 | 2770           | 1000 | 720 | 590 | 2427 | 1-1/8           | 2-1/8  | 2     | 286         |
| TEM-XH-40.1/153 | 3400           | 1000 | 720 | 590 | 3050 | 1-1/8           | 2-1/8  | 2     | 325         |
| TEM-XH-47.6/204 | 3400           | 1000 | 720 | 590 | 3050 | 1-1/8           | 2-1/8  | 2     | 393         |
| TEM-XL-8.2/45   | 1990           | 700  | 850 | 590 | 1647 | 5/8             | 1-3/8  | 1-1/2 | 174         |
| TEM-XL-11.5/79  | 2770           | 850  | 700 | 590 | 2427 | 7/8             | 1-5/8  | 1-1/2 | 248         |
| TEM-XL-13.9/106 | 2770           | 850  | 700 | 590 | 2427 | 7/8             | 1-5/8  | 1-1/2 | 278         |
| TEM-XL-16.8/93  | 3375           | 850  | 700 | 590 | 3027 | 1-1/8           | 2-1/8  | 1-1/2 | 313         |
| TEM-XL-20.6/125 | 3375           | 850  | 700 | 590 | 3027 | 1-1/8           | 2-1/8  | 1-1/2 | 348         |
| TEM-XL-16.1/95  | 2770           | 1000 | 720 | 590 | 2427 | 1-1/8           | 2-1/8  | 2     | 238         |
| TEM-XL-16.6/127 | 2770           | 1000 | 720 | 590 | 2427 | 1-3/8           | 2-1/8  | 2     | 285         |
| TEM-XL-20.8/120 | 3400           | 1000 | 720 | 590 | 3027 | 1-1/8           | 2-1/8  | 2     | 321         |
| TEM-XL-25.7/160 | 3400           | 1000 | 720 | 590 | 3027 | 1-3/8           | 2-1/8  | 2     | 390         |
| TEM-XL-22.0/145 | 3310           | 1235 | 850 | 690 | 2952 | 1-1/8           | 2-1/8  | 2     | 342         |
| TEM-XL-23.8/193 | 3310           | 1235 | 850 | 690 | 2952 | 1-1/8           | 2-1/8  | 2     | 410         |
| TEM-XL-30.6/217 | 3760           | 1235 | 850 | 690 | 3300 | 1-1/8           | 2-1/8  | 2     | 387         |
| TEM-XL-33.5/290 | 3760           | 1235 | 850 | 690 | 3300 | 1-1/8           | 2-1/8  | 2     | 440         |



# Selection Features & Performance

To select the product in conditions of practical use with R404A, it is necessary to multiply the nominal capacity value by the correction factor stated in (Table 1).

With other refrigerants, multiply the nominal capacity by the respective factor (Table 2).

Table 1: Correction Factor of nominal capacity kW (R404A) for different room temperature and TD (F1)

| ΔT (K) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 10     | 1.09 | 1.09 | 1.10 | 1.13 | 1.16 | 1.19 | 1.22 | 1.25 | 1.29 | 1.34 | 1.38 | 1.42 | 1.47 | 1.47 | 1.47 | 1.47 | 1.47 |
| 9      | 0.98 | 0.98 | 0.99 | 1.02 | 1.04 | 1.07 | 1.10 | 1.13 | 1.16 | 1.20 | 1.24 | 1.28 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 |
| 8      | 0.87 | 0.87 | 0.88 | 0.90 | 0.93 | 0.95 | 0.98 | 1.00 | 1.04 | 1.07 | 1.10 | 1.14 | 1.17 | 1.17 | 1.17 | 1.17 | 1.17 |
| 7      | 0.76 | 0.76 | 0.77 | 0.79 | 0.81 | 0.83 | 0.85 | 0.88 | 0.91 | 0.94 | 0.97 | 1.00 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| 6      | 0.65 | 0.65 | 0.66 | 0.68 | 0.70 | 0.71 | 0.73 | 0.75 | 0.78 | 0.80 | 0.83 | 0.85 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 |
| 5      | 0.54 | 0.54 | 0.55 | 0.57 | 0.58 | 0.60 | 0.61 | 0.63 | 0.65 | 0.67 | 0.69 | 0.71 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 |
| 4      | 0.44 | 0.44 | 0.44 | 0.45 | 0.46 | 0.48 | 0.49 | 0.50 | 0.52 | 0.54 | 0.55 | 0.57 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 |
| °C     | -35  | -30  | -25  | -20  | -15  | -10  | -5   | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 8    | 10   | 12   |

Table 2: Correction Factor for Refrigerants (F2)

| T Room (°C) | -35  | -30  | -25  | -20  | -15  | -10  | -5   | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 8    | 10   | 12   |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| R22         | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| R134A       | -    | -    | -    | -    | 0.86 | 0.88 | 0.89 | 0.91 | 0.91 | 0.91 | 0.92 | 0.92 | 0.92 | 0.92 | 0.93 | 0.93 | 0.93 |
| R404A       | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |

### Selection Example:

#### A) For TEM model based on different conditions

Air Inlet Temperature

= -20°C

Temperature Different, ΔT

= 7K

Refrigerant

= R404A

Selected Model

= TEM-L-4.3/15

Nominal Capacity (W) from Catalogue

= 5388

Head Load (W),  
can be calculated by using formula,

Nominal Capacity x F1 x F2 = 5388 x 0.79 x 1.00  
= 4257W

#### B) Select TEM model based on required heat load

Heat Load

= 9000W

Air Inlet Temperature

= 0°C

Temperature Different, ΔT

= 7K

Refrigerant

= R404A

Nominal Capacity (W),  
can be calculated by using formula,

(Head Load) / (F1 x F2) = (9000) / (0.88 x 1.00)  
= 10227W

Selected model (High Temp Application) =  
TEM-H-10.5/45

## Note

[illegible]



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