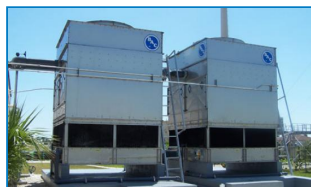


# PTE

## Open cooling towers



### Key benefits

- Low energy consumption
- Low noise
- Easy to maintain



### PTE characteristics

Counter flow, axial fan, induced draft

### Capacity range

10 - 140 l/s

### Water distribution

Pressurised

### Maximum entering water temperature

55°C standard fill

65°C with alternative fill

### Typical applications

- Small to large industrial applications
- Dirty water applications

- Replacement of field erected towers with basinless units

## Low energy consumption

- [Evaporative cooling](#) for system-wide energy saving at lower operating temperatures.
- **Axial fan** uses **half the energy** of similar centrifugal fan units.
- The thermal performance of the PTE is tested and [certified by Eurovent](#).
- Factory tested high efficiency [Versapak fill](#) with maximum air/water contact at low air pressure drops
- **High efficiency fan motors**

## Low noise

- PTE features low noise axial fans. To reduce noise even further, choose for [Whisper Quiet fans](#).
- Factory designed, tested and rated [sound attenuation](#) is available on the discharge for further noise reduction.
- [Water silencers](#) achieve noise levels close to those of crossflow towers. Water silencers come always with Whisper Quiet fans.

## Easy to maintain

- The PTE open cooling tower is **easier to maintain than** other induced draft counterflow cooling towers.
- **BranchLok** water distribution - each branch removable for easy cleaning.
- **Combined inlet shields** for easy no-tool removal.
- [Fill bundle modules](#), with optional handles and **removable side panels** for better and easier fill inspection and replacement.
- **Motor adjusters**: externally accessible and locking wrench for easy motor alignment and belt tensioning.
- Full **cold water basin access** when removing the combined inlet shields.
- **Fans easy accessible via sliding access door**.
- Optional [clean out port](#) **helps remove** silt and sludge from the cooling tower basin.
- Removable **suction strainer** anti-vortex hood.

## Ship and install PTE easily

- The **leak-free InterLok system** means swift **PTE tower on-site assembly**. Install the basin on the upper section with no sealer tape in between!
- Compact PTE footprint – **perfect for confined spaces**.
- **Container shipment** often possible!

## Operational safety

- Easy-clean and easy-inspect PTE towers **reduce hygiene risks** from bacteria (eg Legionella) or biofilm inside.
- Self-cleaning cold water basin and fill above **sloped basin** to flush out dirt and debris.
- Factory tested and Eurovent certified high efficient **drift eliminators**.



- **Combined inlet shields** block sunlight to prevent biological growth in the tower, filter the air and stop water splashing outside.
- Optional [sump sweeper piping](#) prevents sediment collecting in the cold water basin.

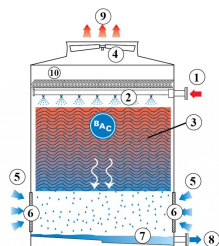
Interested in the PTE cooling towers for cooling your process water? Contact your [BAC representative](#) for more information.

## Downloads

- [PTE open cooling tower](#)
- [PTE open cooling towers - brochure](#)
- [Operating and Maintenance PTE](#)
- [Rigging and Installation PTE](#)
- [PTE Eurovent certificate](#)

# Principle of operation

## Open cooling towers

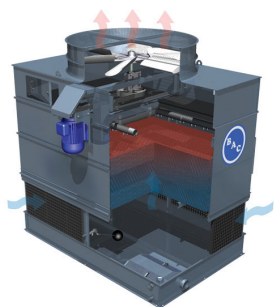


Warm process **water (1)** from the heat source enters the **spray system (2)** at the top of the cooling tower where it is distributed over the **fill** or heat transfer media **(3)**. At the same time the **axial fan (4)**, located at the top of the unit, draws the **air** from the sides of the unit **(5)** over the fill. **Combined inlet shields (6)** protect the tower from debris being drawn into the unit. While the warm process water contacts the cold air the latter heats up and part of the process water is evaporated which removes the heat from the remaining water. The **sloping sump (7)** or basin collects the cooled water after which it returns to the **heat source of the process (8)**. The warm saturated **air (9)** first passes through the **drift eliminators (10)**, which remove water droplets from the air, and then exits the tower at the top.

**Want to use the PTE cooling tower to cool your process water?** Contact your local [BAC representative](#) for more information.

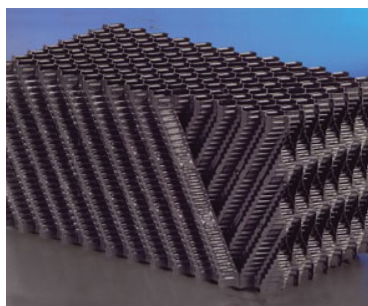
# Construction details

## Open cooling towers



### 1. Material options

- Heavy-gauge hot-dip galvanized steel is used for external unit steel panels and structural elements featuring [Baltiplus Corrosion Protection](#).
- The unique [Baltibond® hybrid coating](#) is an optional extra. A hybrid polymer coating for longer service life, applied pre-assembly to all hot-dip galvanized steel components of the unit.
- [Optional water contact stainless steel](#) panels and structural elements of type 304L or 316L for extreme applications.
- Or the economical alternative: a **water-contact stainless steel cold water basin**. Its key components and the basin itself are stainless steel. The rest is protected with the Baltibond® hybrid coating.



### 2. Heat transfer media

- Our heat transfer media is [Versapak fill](#). Its thermal performance is proven during comprehensive [lab thermal performance tests](#), and it offers you unrivalled system efficiency.
- Cross fluted fill design in **easy to handle, lift and remove blocks**. In polypropylene, which will not rot, decay or decompose. Optional in flame-retardant material. For operation above 55°C, try our **optional high temperature fill**, usable with intake water up to 65°C.
- The **removable side panel and fill blocks with lift-out-handles** are an optional extra.



### 3. Air movement system

- **PTE fan system** features two aluminium sheaves, belt and externally factory-mounted motor. Together with the heavy duty fan shaft bearings and the BAC **Impervix** motor, this guarantees optimal and year-round operational efficiency.
- **Low kW and noise axial fan(s)** in corrosion resistant aluminum, encased in fan cylinder with removable fan guard. Easy accessible via **sliding access door**. To reduce noise even further, choose for a [Whisper Quiet fan](#) with minimal impact on thermal performance.
- **Extended lubrication lines** with easily accessible grease fittings **to lubricate** fan shaft bearings.
- **Our drift eliminators** come in UV-resistant plastic, which will not rot, decay or decompose and their performance is tested and **certified by Eurovent**. They are assembled in **easily handled and removable sections**, for optimal internal access.



- Easy removable UV-resistant plastic **combined inlet shields** at air inlet. Sunlight block to prevent biological growth in tower, air filter and water splash-out stop.



#### 4. Water distribution system

These consist of:

- The exclusive **BranchLok system**, including spray branches, external header clean out ports and non-clog plastic nozzles secured by rubber grommets. Unmatched cleaning system: **tool free branch removal** for easy inspection and flushing.
- Easy accessible **sloped cold water basin**, including anti-vortexing strainers, make up and **overflow** connection.

Interested in the PTE cooling tower? Contact your local [BAC representative](#).

# Options and accessories

## Open cooling towers

Below is a listing of the main PTE options and accessories. If your required option or accessory is not listed, look no further than your [local BAC representative](#).



### Removable fill and side panel

Integrated **BAC Versapak fill bundle modules**, with handles and optional **removable side panels** – facilitating fill inspection and replacement.



### Sound attenuation

Reducing noise at air **discharge** brings use closer to silent cooling equipment.



### Whisper Quiet fan

Reduce fan noise even more with **very low sound factory-tested fans**.



### Water silencers

Water silencers in the basin **reduce the noise** of the water falling into the basin.



### Plume abatement coil

A finned discharge coil is installed in your cooling tower discharge and piped in series with the wet coil. This **reduces or eliminates plumes** and **extends the dry cooling capacity**.



#### Remote sump connection

The best way to **prevent a sump freezing** is to use the auxiliary remote variety within a heated area. Shutting off the circulating pump allows all the water in the water distribution, as well as that in suspension and the sump to drain freely to the auxiliary sump.



#### Basin heater package

Thanks to our factory-installed heaters, the water stays at 4°C and **never freezes**, even during equipments downtime and however cold it gets outside.



#### Platforms, ladders, safety cage and handrail

To inspect and maintain from the top of the unit more **easily and safely**, platforms, a ladder, safety cage and handrails can be installed.



#### Motor removal davit

For **easy removal or lifting** of the side motor.



#### Electric water level control package

For **perfectly precise water level control**, replace the standard mechanical valve with our electrical water level controller.



#### Vibration cut out switch

When excessive vibration occurs, this switch shuts down the fan, ensuring your cooling equipment **operates safely**.



#### Water treatment equipment

Devices to control water treatment are needed to ensure proper **cooling tower water care**. Not only does this help protect the components and fill pack, controlling corrosion, scaling and fouling, it also avoids the proliferation of harmful bacteria, including **legionella**, in the recirculating water.



#### Filter

Separators and media filters efficiently **remove suspended solids** in the recirculating water, reducing system cleaning costs and optimizing water treatment results. Filtration helps you keep the recirculating water clean.



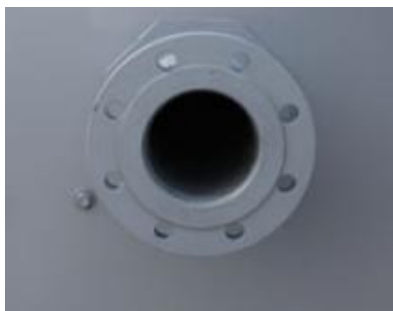
#### Sump sweeper piping

Sump sweeper piping **prevents sediment collecting in the cold water basin** of the unit. A complete piping system, including nozzles, is installed in the basin of the tower **for connection to side stream filtration** equipment.



#### Clean out port

Clean out port **makes it easy to eliminate silt and sludge** from the cooling tower basin when cleaning and flushing the sump.



## Flanges

Flanges facilitate **pipng connections** on-site.



# Special needs

## Open cooling towers

Our ongoing [R&D](#) investment helps BAC offer you a complete set of solutions **for PTE open cooling towers that meet your needs**. Plus, we also cater for extra requirements such as the following:

---

## Year-round reliable operation

Inspect and maintain your cooling tower and protect it against extreme weather for year-round reliability. The options below help keep your cooling tower running smoothly and reliably and facilitate maintenance.

- [Remote sump connection](#)
  - [Water treatment equipment](#)
  - [Sump sweeper piping](#)
  - [Clean out port](#)
  - [Filters](#)
  - [Platforms, ladders, safety cage and handrails](#)
  - [Vibration cut out switch](#)
  - [Electric water level control package](#)
  - [Extended lubrication lines](#)
  - [Removable fill and side panel](#)
  - [Motor removal davit](#)
  - [Baltibond<sup>®</sup> hybrid coating](#)
- 

## Sound control

PTE uses a low noise axial fan.

Helping keep it near noiseless:

- [Discharge sound attenuators](#)
  - [Whisper Quiet fan](#)
  - [Water silencers](#)
- 

## Energy saving

PTE uses evaporative cooling technology for lower operating temperatures than other cooling methods. With the following options, reduce energy costs still further:

- Thermostat
-



## Enhanced hygiene and water care

Water circulates in evaporative cooling towers and it is important to avoid excessive accumulation of dissolved solids. The following options help keep your cooling tower clean:

- [Remote sump connection](#)
- [Water treatment equipment](#)
- [Sump sweeper piping](#)
- [Clean out port](#)
- [Filters](#)
- [Baltibond® hybrid coating](#)

To control biological growth and scale formation, the water quality of the circulated water should be checked regularly. [Water quality guidelines](#) can be found in the [Knowledge center](#) of the website.

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## Plume control

Tap into abundant BAC plume control experience. For the PTE line, we offer [plume abatement coils](#) with **reduced plume**. Check out our [BAC plume visualization software](#) for insight into **how your cooling equipment will plume** before installation. Helping you choose the best and most effective plume abatement solution.

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## Water savings

You need water for evaporative cooling. At BAC, however, we offer acclaimed and advanced water saving technologies. Helping in this aim are:

- [Electric water level control package](#)
- [Water treatment equipment](#)
- [Sump sweeper piping](#)

BAC boasts a **complete water saving product range** for unrivalled water saving AND exceptional thermal efficiency, thanks to water saving technology. Hybrid wet/dry cooling towers are: [HXI](#), [HFL](#), [TrilliumSeries™ coolers](#).

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**Do you too want to benefit from the above solutions?** Contact your [local BAC representative](#) for more information.

# PTE 0709A

## Open cooling towers

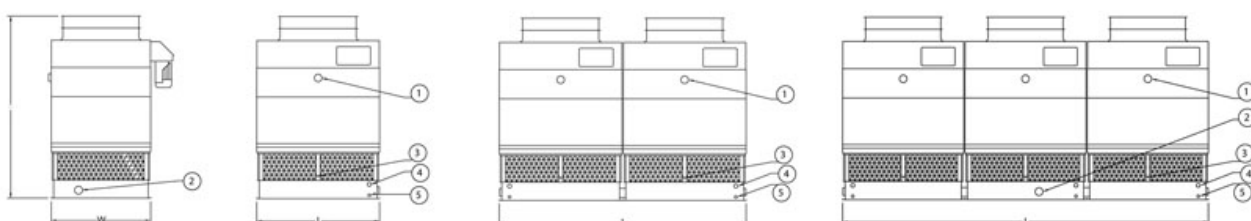
## Engineering data

**REMARK:** Do not use for construction. Refer to factory certified dimensions & weights. This page includes data current at time of publication, which should be reconfirmed at the time of purchase. In the interest of product improvement, specifications, weights and dimensions are subject to change without notice.

### PTE cooling tower performance at standard conditions

Last update 11/08/2025

## PTE 0709A



1. Water in; 2. Water out; 3. Make up; 4. Overflow; 5. Drain.

| Model           | Oper. Weight (kg) | Weights (kg)     |                       | Dimensions (mm) |      |      | Air Flow (m³/s) | Fan Motor (kW) | Fluid Inlet ND (mm) | Fluid Outlet ND (mm) | Make Up ND (mm) |
|-----------------|-------------------|------------------|-----------------------|-----------------|------|------|-----------------|----------------|---------------------|----------------------|-----------------|
|                 |                   | Ship. Weight(kg) | Heaviest Section (kg) | L               | W    | H    |                 |                |                     |                      |                 |
| PTE 0709A-3H-L1 | 3040              | 2100             | 820                   | 2737            | 2216 | 3964 | 14.8            | (1x) 4.0       | (1x) 150            | (1x) 200             | (1x) 40         |
| PTE 0709A-3J-L1 | 3050              | 2100             | 830                   | 2737            | 2216 | 3964 | 16.7            | (1x) 5.5       | (1x) 150            | (1x) 200             | (1x) 40         |
| PTE 0709A-3L-L1 | 3100              | 2150             | 880                   | 2737            | 2216 | 3964 | 20.8            | (1x) 11.0      | (1x) 150            | (1x) 200             | (1x) 40         |
| PTE 0709A-4J-L1 | 3160              | 2220             | 830                   | 2737            | 2216 | 4269 | 15.7            | (1x) 5.5       | (1x) 150            | (1x) 200             | (1x) 40         |
| PTE 0709A-4K-L1 | 3170              | 2230             | 830                   | 2737            | 2216 | 4269 | 17.2            | (1x) 7.5       | (1x) 150            | (1x) 200             | (1x) 40         |
| PTE 0709A-4L-L1 | 3210              | 2260             | 830                   | 2737            | 2216 | 4269 | 19.5            | (1x) 11.0      | (1x) 150            | (1x) 200             | (1x) 40         |
| PTE 0709A-3H-L2 | 6050              | 4150             | 820                   | 5480            | 2216 | 4269 | 29.7            | (2x) 4.0       | (2x) 150            | (2x) 200             | (1x) 40         |
| PTE 0709A-3J-L2 | 6060              | 4160             | 830                   | 5480            | 2216 | 4269 | 33.8            | (2x) 5.5       | (2x) 150            | (2x) 200             | (1x) 40         |
| PTE 0709A-3L-L2 | 6110              | 4210             | 880                   | 5480            | 2216 | 4269 | 41.9            | (2x) 11.0      | (2x) 150            | (2x) 200             | (1x) 40         |
| PTE 0709A-4J-L2 | 6280              | 4390             | 830                   | 5480            | 2216 | 4573 | 31.6            | (2x) 5.5       | (2x) 150            | (2x) 200             | (1x) 40         |
| PTE 0709A-4K-L2 | 6290              | 4400             | 830                   | 5480            | 2216 | 4573 | 34.6            | (2x) 7.5       | (2x) 150            | (2x) 200             | (1x) 40         |
| PTE 0709A-4L-L2 | 6330              | 4440             | 830                   | 5480            | 2216 | 4573 | 39.2            | (2x) 11.0      | (2x) 150            | (2x) 200             | (1x) 40         |



|                 |      |      |     |      |      |      |      |           |          |          |         |
|-----------------|------|------|-----|------|------|------|------|-----------|----------|----------|---------|
| PTE 0709A-3H-L3 | 9060 | 6210 | 820 | 8275 | 2216 | 4573 | 45.0 | (3x) 4.0  | (3x) 150 | (3x) 200 | (2x) 40 |
| PTE 0709A-3J-L3 | 9060 | 6220 | 830 | 8275 | 2216 | 4573 | 51.2 | (3x) 5.5  | (3x) 150 | (3x) 200 | (2x) 40 |
| PTE 0709A-3L-L3 | 9110 | 6270 | 880 | 8275 | 2216 | 4573 | 63.5 | (3x) 11.0 | (3x) 150 | (3x) 200 | (2x) 40 |
| PTE 0709A-4J-L3 | 9400 | 6560 | 830 | 8275 | 2216 | 4878 | 47.9 | (3x) 5.5  | (3x) 150 | (3x) 200 | (2x) 40 |
| PTE 0709A-4K-L3 | 9410 | 6570 | 830 | 8275 | 2216 | 4878 | 52.3 | (3x) 7.5  | (3x) 150 | (3x) 200 | (2x) 40 |
| PTE 0709A-4L-L3 | 9450 | 6610 | 830 | 8275 | 2216 | 4878 | 59.2 | (3x) 11.0 | (3x) 150 | (3x) 200 | (2x) 40 |

# PTE 0809A - 0812A

## Open cooling towers

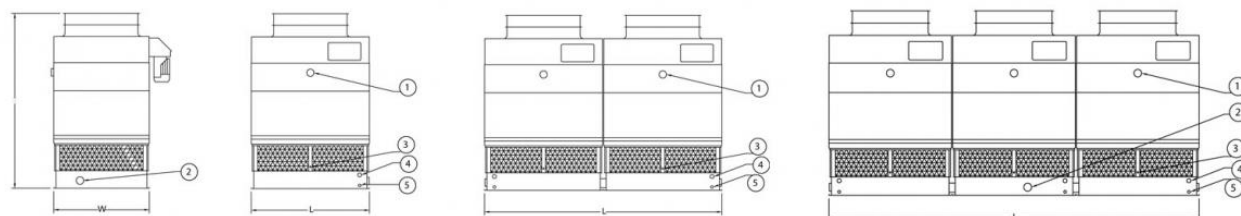
## Engineering data

**REMARK:** Do not use for construction. Refer to factory certified dimensions & weights. This page includes data current at time of publication, which should be reconfirmed at the time of purchase. In the interest of product improvement, specifications, weights and dimensions are subject to change without notice.

### PTE cooling tower performance at standard conditions

Last update 11/08/2025

## PTE 0809A - 0812A



1. Water in; 2. Water out; 3. Make up; 4. Overflow; 5. Drain

| Model           | Oper. Weight (kg) | Weights (kg)     |                       | Dimensions (mm) |      |      | Air Flow (m³/s) | Fan Motor (kW) | Fluid Inlet ND (mm) | Fluid Outlet ND (mm) | Make Up ND (mm) |
|-----------------|-------------------|------------------|-----------------------|-----------------|------|------|-----------------|----------------|---------------------|----------------------|-----------------|
|                 |                   | Ship. Weight(kg) | Heaviest Section (kg) | L               | W    | H    |                 |                |                     |                      |                 |
| PTE 0809A-3J-L1 | 3340              | 2260             | 880                   | 2737            | 2394 | 4002 | 17.5            | (1x) 5.5       | (1x) 200            | (1x) 200             | (1x) 40         |
| PTE 0809A-3K-L1 | 3350              | 2270             | 890                   | 2737            | 2394 | 4002 | 19.2            | (1x) 7.5       | (1x) 200            | (1x) 200             | (1x) 40         |
| PTE 0809A-3L-L1 | 3390              | 2310             | 930                   | 2737            | 2394 | 4002 | 21.8            | (1x) 11.0      | (1x) 200            | (1x) 200             | (1x) 40         |
| PTE 0809A-4K-L1 | 3480              | 2400             | 920                   | 2737            | 2394 | 4307 | 18.0            | (1x) 7.5       | (1x) 200            | (1x) 200             | (1x) 40         |
| PTE 0809A-4L-L1 | 3520              | 2440             | 920                   | 2737            | 2394 | 4307 | 20.4            | (1x) 11.0      | (1x) 200            | (1x) 200             | (1x) 40         |
| PTE 0809A-4M-L1 | 3530              | 2450             | 920                   | 2737            | 2394 | 4307 | 22.2            | (1x) 15.0      | (1x) 200            | (1x) 200             | (1x) 40         |
| PTE 0812A-3L-L1 | 4210              | 2690             | 940                   | 3651            | 2394 | 4116 | 26.8            | (1x) 11.0      | (1x) 200            | (1x) 200             | (1x) 40         |
| PTE 0812A-3M-L1 | 4210              | 2700             | 940                   | 3651            | 2394 | 4116 | 29.2            | (1x) 15.0      | (1x) 200            | (1x) 200             | (1x) 40         |
| PTE 0812A-3N-L1 | 4250              | 2730             | 940                   | 3651            | 2394 | 4116 | 31.5            | (1x) 18.5      | (1x) 200            | (1x) 200             | (1x) 40         |
| PTE 0812A-4M-L1 | 4370              | 2850             | 1090                  | 3651            | 2394 | 4421 | 27.2            | (1x) 15.0      | (1x) 200            | (1x) 200             | (1x) 40         |
| PTE 0812A-4N-L1 | 4400              | 2880             | 1090                  | 3651            | 2394 | 4421 | 29.1            | (1x) 18.5      | (1x) 200            | (1x) 200             | (1x) 40         |
| PTE 0812A-4O-L1 | 4410              | 2900             | 1090                  | 3651            | 2394 | 4421 | 30.9            | (1x) 22.0      | (1x) 200            | (1x) 200             | (1x) 40         |



|                 |       |      |      |       |      |      |      |           |          |          |         |
|-----------------|-------|------|------|-------|------|------|------|-----------|----------|----------|---------|
| PTE 0809A-3J-L2 | 6640  | 4470 | 880  | 5480  | 2394 | 4307 | 35.3 | (2x) 5.5  | (2x) 200 | (2x) 200 | (1x) 40 |
| PTE 0809A-3K-L2 | 6650  | 4480 | 890  | 5480  | 2394 | 4307 | 38.7 | (2x) 7.5  | (2x) 200 | (2x) 200 | (1x) 40 |
| PTE 0809A-3L-L2 | 6680  | 4520 | 930  | 5480  | 2394 | 4307 | 43.9 | (2x) 11.0 | (2x) 200 | (2x) 200 | (1x) 40 |
| PTE 0809A-4K-L2 | 6910  | 4750 | 920  | 5480  | 2394 | 4611 | 36.2 | (2x) 7.5  | (2x) 200 | (2x) 200 | (1x) 40 |
| PTE 0809A-4L-L2 | 6950  | 4790 | 920  | 5480  | 2394 | 4611 | 41.1 | (2x) 11.0 | (2x) 200 | (2x) 200 | (1x) 40 |
| PTE 0809A-4M-L2 | 6960  | 4800 | 920  | 5480  | 2394 | 4611 | 44.7 | (2x) 15.0 | (2x) 200 | (2x) 200 | (1x) 40 |
| PTE 0812A-3L-L2 | 8320  | 5290 | 940  | 7304  | 2394 | 4421 | 54.4 | (2x) 11.0 | (2x) 200 | (2x) 200 | (1x) 40 |
| PTE 0812A-3M-L2 | 8330  | 5300 | 940  | 7304  | 2394 | 4421 | 59.4 | (2x) 15.0 | (2x) 200 | (2x) 200 | (1x) 40 |
| PTE 0812A-3N-L2 | 8360  | 5330 | 940  | 7304  | 2394 | 4421 | 63.5 | (2x) 18.5 | (2x) 200 | (2x) 200 | (1x) 40 |
| PTE 0812A-4M-L2 | 8630  | 5600 | 1090 | 7304  | 2394 | 4726 | 55.2 | (2x) 15.0 | (2x) 200 | (2x) 200 | (1x) 40 |
| PTE 0812A-4N-L2 | 8660  | 5630 | 1090 | 7304  | 2394 | 4726 | 59.0 | (2x) 18.5 | (2x) 200 | (2x) 200 | (1x) 40 |
| PTE 0812A-4O-L2 | 8680  | 5650 | 1090 | 7304  | 2394 | 4726 | 62.3 | (2x) 22.0 | (2x) 200 | (2x) 200 | (1x) 40 |
| PTE 0809A-3J-L3 | 9930  | 6690 | 880  | 8275  | 2394 | 4611 | 53.4 | (3x) 5.5  | (3x) 200 | (3x) 200 | (2x) 40 |
| PTE 0809A-3K-L3 | 9940  | 6700 | 890  | 8275  | 2394 | 4611 | 58.5 | (3x) 7.5  | (3x) 200 | (3x) 200 | (2x) 40 |
| PTE 0809A-3L-L3 | 9980  | 6740 | 930  | 8275  | 2394 | 4611 | 66.3 | (3x) 11.0 | (3x) 200 | (3x) 200 | (2x) 40 |
| PTE 0809A-4K-L3 | 10340 | 7100 | 920  | 8275  | 2394 | 4916 | 54.8 | (3x) 7.5  | (3x) 200 | (3x) 200 | (2x) 40 |
| PTE 0809A-4L-L3 | 10380 | 7140 | 920  | 8275  | 2394 | 4916 | 62.0 | (3x) 11.0 | (3x) 200 | (3x) 200 | (2x) 40 |
| PTE 0809A-4M-L3 | 10390 | 7140 | 920  | 8275  | 2394 | 4916 | 67.5 | (3x) 15.0 | (3x) 200 | (3x) 200 | (2x) 40 |
| PTE 0812A-3L-L3 | 12440 | 7890 | 940  | 11018 | 2394 | 4726 | 82.1 | (3x) 11.0 | (3x) 200 | (3x) 200 | (2x) 40 |
| PTE 0812A-3M-L3 | 12440 | 7900 | 940  | 11018 | 2394 | 4726 | 89.7 | (3x) 15.0 | (3x) 200 | (3x) 200 | (2x) 40 |
| PTE 0812A-3N-L3 | 12480 | 7930 | 940  | 11018 | 2394 | 4726 | 95.9 | (3x) 18.5 | (3x) 200 | (3x) 200 | (2x) 40 |
| PTE 0812A-4M-L3 | 12900 | 8350 | 1090 | 11018 | 2394 | 5031 | 83.3 | (3x) 15.0 | (3x) 200 | (3x) 200 | (2x) 40 |
| PTE 0812A-4N-L3 | 12930 | 8380 | 1090 | 11018 | 2394 | 5031 | 89.1 | (3x) 18.5 | (3x) 200 | (3x) 200 | (2x) 40 |
| PTE 0812A-4O-L3 | 12950 | 8400 | 1090 | 11018 | 2394 | 5031 | 94.0 | (3x) 22.0 | (3x) 200 | (3x) 200 | (2x) 40 |

# PTE 1009A - 1012A

## Open cooling towers

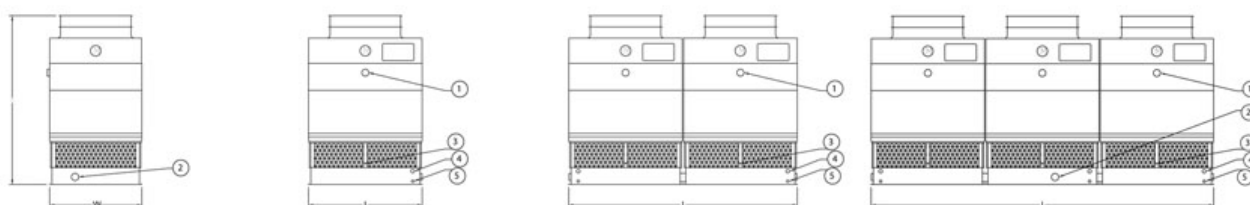
## Engineering data

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### PTE cooling tower performance at standard conditions

Last update 11/08/2025

## PTE 1009A - 1012A



1. Water in; 2. Water out; 3. Make up; 4. Overflow; 5. Drain.

| Model           | Oper. Weight (kg) | Weights (kg)     |                       | Dimensions (mm) |      |      | Air Flow (m³/s) | Fan Motor (kW) | Fluid Inlet ND (mm) | Fluid Outlet ND (mm) | Make Up ND (mm) |
|-----------------|-------------------|------------------|-----------------------|-----------------|------|------|-----------------|----------------|---------------------|----------------------|-----------------|
|                 |                   | Ship. Weight(kg) | Heaviest Section (kg) | L               | W    | H    |                 |                |                     |                      |                 |
| PTE 1009A-3K-L1 | 3940              | 2780             | 1100                  | 2737            | 2997 | 4530 | 22.7            | (1x) 7.5       | (1x) 200            | (1x) 200             | (1x) 40         |
| PTE 1009A-3L-L1 | 3980              | 2810             | 1130                  | 2737            | 2997 | 4530 | 25.7            | (1x) 11.0      | (1x) 200            | (1x) 200             | (1x) 40         |
| PTE 1009A-3M-L1 | 3990              | 2820             | 1140                  | 2737            | 2997 | 4530 | 28.1            | (1x) 15.0      | (1x) 200            | (1x) 200             | (1x) 40         |
| PTE 1009A-4L-L1 | 4130              | 2970             | 1090                  | 2737            | 2997 | 4835 | 23.9            | (1x) 11.0      | (1x) 200            | (1x) 200             | (1x) 40         |
| PTE 1009A-4M-L1 | 4140              | 2970             | 1090                  | 2737            | 2997 | 4835 | 26.1            | (1x) 15.0      | (1x) 200            | (1x) 200             | (1x) 40         |
| PTE 1009A-4N-L1 | 4170              | 3010             | 1090                  | 2737            | 2997 | 4835 | 27.9            | (1x) 18.5      | (1x) 200            | (1x) 200             | (1x) 40         |
| PTE 1012A-3M-L1 | 4950              | 3330             | 1300                  | 3651            | 2997 | 4607 | 34.1            | (1x) 15.0      | (1x) 200            | (1x) 250             | (1x) 40         |
| PTE 1012A-3N-L1 | 4990              | 3360             | 1330                  | 3651            | 2997 | 4607 | 36.5            | (1x) 18.5      | (1x) 200            | (1x) 250             | (1x) 40         |
| PTE 1012A-3O-L1 | 5000              | 3380             | 1350                  | 3651            | 2997 | 4607 | 38.6            | (1x) 22.0      | (1x) 200            | (1x) 250             | (1x) 40         |
| PTE 1012A-4M-L1 | 5130              | 3510             | 1300                  | 3651            | 2997 | 4911 | 31.9            | (1x) 15.0      | (1x) 200            | (1x) 250             | (1x) 40         |
| PTE 1012A-4N-L1 | 5170              | 3540             | 1300                  | 3651            | 2997 | 4911 | 34.2            | (1x) 18.5      | (1x) 200            | (1x) 250             | (1x) 40         |
| PTE 1012A-4O-L1 | 5180              | 3560             | 1300                  | 3651            | 2997 | 4911 | 36.0            | (1x) 22.0      | (1x) 200            | (1x) 250             | (1x) 40         |



|                 |       |       |      |       |      |      |       |           |          |          |         |
|-----------------|-------|-------|------|-------|------|------|-------|-----------|----------|----------|---------|
| PTE 1009A-3K-L2 | 7830  | 5500  | 1100 | 5480  | 2997 | 4835 | 45.4  | (2x) 7.5  | (2x) 200 | (2x) 200 | (2x) 40 |
| PTE 1009A-3L-L2 | 7860  | 5540  | 1130 | 5480  | 2997 | 4835 | 51.5  | (2x) 11.0 | (2x) 200 | (2x) 200 | (2x) 40 |
| PTE 1009A-3M-L2 | 7870  | 5550  | 1140 | 5480  | 2997 | 4835 | 56.2  | (2x) 15.0 | (2x) 200 | (2x) 200 | (2x) 40 |
| PTE 1009A-4L-L2 | 8170  | 5840  | 1090 | 5480  | 2997 | 5445 | 47.9  | (2x) 11.0 | (2x) 200 | (2x) 200 | (2x) 40 |
| PTE 1009A-4M-L2 | 8170  | 5850  | 1090 | 5480  | 2997 | 5445 | 52.1  | (2x) 15.0 | (2x) 200 | (2x) 200 | (2x) 40 |
| PTE 1009A-4N-L2 | 8210  | 5880  | 1090 | 5480  | 2997 | 5445 | 55.7  | (2x) 18.5 | (2x) 200 | (2x) 200 | (2x) 40 |
| PTE 1012A-3M-L2 | 9810  | 6560  | 1300 | 7328  | 2997 | 4911 | 68.3  | (2x) 15.0 | (2x) 200 | (2x) 250 | (1x) 40 |
| PTE 1012A-3N-L2 | 9840  | 6600  | 1330 | 7328  | 2997 | 4911 | 73.2  | (2x) 18.5 | (2x) 200 | (2x) 250 | (1x) 40 |
| PTE 1012A-3O-L2 | 9860  | 6610  | 1350 | 7328  | 2997 | 4911 | 77.4  | (2x) 22.0 | (2x) 200 | (2x) 250 | (1x) 40 |
| PTE 1012A-4M-L2 | 10170 | 6930  | 1300 | 7328  | 2997 | 5216 | 63.9  | (2x) 15.0 | (2x) 200 | (2x) 250 | (1x) 40 |
| PTE 1012A-4N-L2 | 10200 | 6960  | 1300 | 7328  | 2997 | 5216 | 68.5  | (2x) 18.5 | (2x) 200 | (2x) 250 | (1x) 40 |
| PTE 1012A-4O-L2 | 10220 | 6970  | 1300 | 7328  | 2997 | 5216 | 72.4  | (2x) 22.0 | (2x) 200 | (2x) 250 | (1x) 40 |
| PTE 1009A-3K-L3 | 11710 | 8220  | 1100 | 8275  | 2997 | 5140 | 68.9  | (3x) 7.5  | (3x) 200 | (3x) 200 | (2x) 40 |
| PTE 1009A-3L-L3 | 11750 | 8260  | 1130 | 8275  | 2997 | 5140 | 78.0  | (3x) 11.0 | (3x) 200 | (3x) 200 | (2x) 40 |
| PTE 1009A-3M-L3 | 11760 | 8270  | 1140 | 8275  | 2997 | 5140 | 85.1  | (3x) 15.0 | (3x) 200 | (3x) 200 | (2x) 40 |
| PTE 1009A-4L-L3 | 12200 | 8710  | 1090 | 8275  | 2997 | 5445 | 72.4  | (3x) 11.0 | (3x) 200 | (3x) 200 | (2x) 40 |
| PTE 1009A-4M-L3 | 12210 | 8720  | 1090 | 8275  | 2997 | 5445 | 78.9  | (3x) 15.0 | (3x) 200 | (3x) 200 | (2x) 40 |
| PTE 1009A-4N-L3 | 12240 | 8750  | 1090 | 8275  | 2997 | 5445 | 84.3  | (3x) 18.5 | (3x) 200 | (3x) 200 | (2x) 40 |
| PTE 1012A-3M-L3 | 14660 | 9790  | 1300 | 11018 | 2997 | 5216 | 103.5 | (3x) 15.0 | (3x) 200 | (3x) 250 | (2x) 40 |
| PTE 1012A-3N-L3 | 14690 | 9830  | 1330 | 11018 | 2997 | 5216 | 110.9 | (3x) 18.5 | (3x) 200 | (3x) 250 | (2x) 40 |
| PTE 1012A-3O-L3 | 14710 | 9840  | 1350 | 11018 | 2997 | 5216 | 117.2 | (3x) 22.0 | (3x) 200 | (3x) 250 | (2x) 40 |
| PTE 1012A-4M-L3 | 15200 | 10340 | 1300 | 11018 | 2997 | 5521 | 96.7  | (3x) 15.0 | (3x) 200 | (3x) 250 | (2x) 40 |
| PTE 1012A-4N-L3 | 15240 | 10370 | 1300 | 11018 | 2997 | 5521 | 103.5 | (3x) 18.5 | (3x) 200 | (3x) 250 | (2x) 40 |
| PTE 1012A-4O-L3 | 15250 | 10390 | 1300 | 11018 | 2997 | 5521 | 109.4 | (3x) 22.0 | (3x) 200 | (3x) 250 | (2x) 40 |

# PTE 1212A

## Open cooling towers

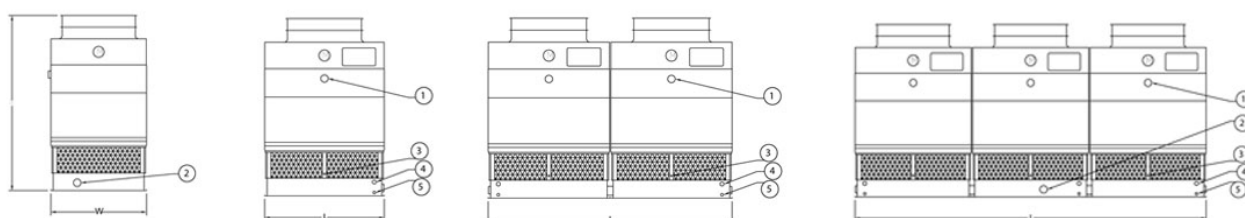
### Engineering data

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#### PTE cooling tower performance at standard conditions

Last update 11/08/2025

### PTE 1212A



1. Water in; 2. Water out; 3. Make up; 4. Overflow; 5. Drain.

| Model           | Oper. Weight (kg) | Weights (kg)     |                       | Dimensions (mm) |      |      | Air Flow (m³/s) | Fan Motor (kW) | Fluid Inlet ND (mm) | Fluid Outlet ND (mm) | Make Up ND (mm) |
|-----------------|-------------------|------------------|-----------------------|-----------------|------|------|-----------------|----------------|---------------------|----------------------|-----------------|
|                 |                   | Ship. Weight(kg) | Heaviest Section (kg) | L               | W    | H    |                 |                |                     |                      |                 |
| PTE 1212A-3M-L1 | 5620              | 3810             | 1420                  | 3651            | 3607 | 4759 | 39.9            | (1x) 15.0      | (1x) 200            | (1x) 250             | (1x) 40         |
| PTE 1212A-3N-L1 | 5650              | 3840             | 1460                  | 3651            | 3607 | 4759 | 42.8            | (1x) 18.5      | (1x) 200            | (1x) 250             | (1x) 40         |
| PTE 1212A-3O-L1 | 5660              | 3860             | 1470                  | 3651            | 3607 | 4759 | 45.2            | (1x) 22.0      | (1x) 200            | (1x) 250             | (1x) 40         |
| PTE 1212A-4N-L1 | 5870              | 4060             | 1510                  | 3651            | 3607 | 5064 | 40.4            | (1x) 18.5      | (1x) 200            | (1x) 250             | (1x) 40         |
| PTE 1212A-4O-L1 | 5880              | 4080             | 1510                  | 3651            | 3607 | 5064 | 42.7            | (1x) 22.0      | (1x) 200            | (1x) 250             | (1x) 40         |
| PTE 1212A-4P-L1 | 5940              | 4130             | 1510                  | 3651            | 3607 | 5064 | 46.5            | (1x) 30.0      | (1x) 200            | (1x) 250             | (1x) 40         |
| PTE 1212A-3M-L2 | 11130             | 7520             | 1420                  | 7328            | 3607 | 5064 | 79.7            | (2x) 15.0      | (2x) 200            | (2x) 250             | (1x) 40         |
| PTE 1212A-3N-L2 | 11160             | 7560             | 1460                  | 7328            | 3607 | 5064 | 85.4            | (2x) 18.5      | (2x) 200            | (2x) 250             | (1x) 40         |
| PTE 1212A-3O-L2 | 11180             | 7570             | 1470                  | 7328            | 3607 | 5064 | 90.3            | (2x) 22.0      | (2x) 200            | (2x) 250             | (1x) 40         |
| PTE 1212A-4N-L2 | 11600             | 7990             | 1510                  | 7328            | 3607 | 5369 | 80.8            | (2x) 18.5      | (2x) 200            | (2x) 250             | (1x) 40         |
| PTE 1212A-4O-L2 | 11620             | 8010             | 1510                  | 7328            | 3607 | 5369 | 85.3            | (2x) 22.0      | (2x) 200            | (2x) 250             | (1x) 40         |
| PTE 1212A-4P-L2 | 11670             | 8070             | 1510                  | 7328            | 3607 | 5369 | 92.9            | (2x) 30.0      | (2x) 200            | (2x) 250             | (1x) 40         |



|                 |       |       |      |       |      |      |       |           |          |          |         |
|-----------------|-------|-------|------|-------|------|------|-------|-----------|----------|----------|---------|
| PTE 1212A-3M-L3 | 16650 | 11230 | 1420 | 11018 | 3607 | 5369 | 120.5 | (3x) 15.0 | (3x) 200 | (3x) 250 | (2x) 40 |
| PTE 1212A-3N-L3 | 16680 | 11270 | 1460 | 11018 | 3607 | 5369 | 129.1 | (3x) 18.5 | (3x) 200 | (3x) 250 | (2x) 40 |
| PTE 1212A-3O-L3 | 16690 | 11280 | 1470 | 11018 | 3607 | 5369 | 136.4 | (3x) 22.0 | (3x) 200 | (3x) 250 | (2x) 40 |
| PTE 1212A-4N-L3 | 17340 | 11930 | 1510 | 11018 | 3607 | 5673 | 121.8 | (3x) 18.5 | (3x) 200 | (3x) 250 | (2x) 40 |
| PTE 1212A-4O-L3 | 17350 | 11940 | 1510 | 11018 | 3607 | 5673 | 128.7 | (3x) 22.0 | (3x) 200 | (3x) 250 | (2x) 40 |
| PTE 1212A-4P-L3 | 17410 | 12000 | 1510 | 11018 | 3607 | 5673 | 140.2 | (3x) 30.0 | (3x) 200 | (3x) 250 | (2x) 40 |

# Sound attenuation

## Open cooling towers

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#### PTE cooling tower performance at standard conditions

Last update 11/08/2025

### Sound attenuation



1. Discharge attenuator.

| Model           | Dimensions (mm) |      | Weights (kg) |
|-----------------|-----------------|------|--------------|
|                 | D               | Ht   | Discharge    |
| PTE 0709A-3H-L1 | 2133            | 5344 | 215          |
| PTE 0709A-3J-L1 | 2133            | 5344 | 215          |
| PTE 0709A-3L-L1 | 2133            | 5344 | 215          |
| PTE 0709A-4J-L1 | 2133            | 5649 | 215          |
| PTE 0709A-4K-L1 | 2133            | 5649 | 215          |
| PTE 0709A-4L-L1 | 2133            | 5649 | 215          |
| PTE 0709A-3H-L2 | 2133            | 5649 | 215          |
| PTE 0709A-3J-L2 | 2133            | 5649 | 215          |
| PTE 0709A-3L-L2 | 2133            | 5649 | 215          |
| PTE 0709A-4J-L2 | 2133            | 5953 | 215          |
| PTE 0709A-4K-L2 | 2133            | 5953 | 215          |
| PTE 0709A-4L-L2 | 2133            | 5953 | 215          |
| PTE 0709A-3H-L3 | 2133            | 5953 | 215          |
| PTE 0709A-3J-L3 | 2133            | 5953 | 215          |
| PTE 0709A-3L-L3 | 2133            | 5953 | 215          |
| PTE 0709A-4J-L3 | 2133            | 6258 | 215          |
| PTE 0709A-4K-L3 | 2133            | 6258 | 215          |
| PTE 0709A-4L-L3 | 2133            | 6258 | 215          |
| PTE 0809A-3J-L1 | 2133            | 5382 | 231          |
| PTE 0809A-3K-L1 | 2133            | 5382 | 231          |
| PTE 0809A-3L-L1 | 2133            | 5382 | 231          |
| PTE 0809A-4K-L1 | 2133            | 5687 | 231          |
| PTE 0809A-4L-L1 | 2133            | 5687 | 231          |
| PTE 0809A-4M-L1 | 2133            | 5687 | 231          |
| PTE 0812A-3L-L1 | 2133            | 5496 | 174          |
| PTE 0812A-3M-L1 | 2133            | 5496 | 174          |
| PTE 0812A-3N-L1 | 2133            | 5496 | 174          |
| PTE 0812A-4M-L1 | 2133            | 5801 | 174          |
| PTE 0812A-4N-L1 | 2133            | 5801 | 174          |



|                 |      |      |     |
|-----------------|------|------|-----|
| PTE 0812A-4O-L1 | 2133 | 5801 | 174 |
| PTE 0809A-3J-L2 | 2133 | 5687 | 231 |
| PTE 0809A-3K-L2 | 2133 | 5687 | 231 |
| PTE 0809A-3L-L2 | 2133 | 5687 | 231 |
| PTE 0809A-4K-L2 | 2133 | 5991 | 231 |
| PTE 0809A-4L-L2 | 2133 | 5991 | 231 |
| PTE 0809A-4M-L2 | 2133 | 5991 | 231 |
| PTE 0812A-3L-L2 | 2133 | 5801 | 174 |
| PTE 0812A-3M-L2 | 2133 | 5801 | 174 |
| PTE 0812A-3N-L2 | 2133 | 5801 | 174 |
| PTE 0812A-4M-L2 | 2133 | 6106 | 174 |
| PTE 0812A-4N-L2 | 2133 | 6106 | 174 |
| PTE 0812A-4O-L2 | 2133 | 6106 | 174 |
| PTE 0809A-3J-L3 | 2133 | 5991 | 231 |
| PTE 0809A-3K-L3 | 2133 | 5991 | 231 |
| PTE 0809A-3L-L3 | 2133 | 5991 | 231 |
| PTE 0809A-4K-L3 | 2133 | 6296 | 231 |
| PTE 0809A-4L-L3 | 2133 | 6296 | 231 |
| PTE 0809A-4M-L3 | 2133 | 6296 | 231 |
| PTE 0812A-3L-L3 | 2133 | 6106 | 174 |
| PTE 0812A-3M-L3 | 2133 | 6106 | 174 |
| PTE 0812A-3N-L3 | 2133 | 6106 | 174 |
| PTE 0812A-4M-L3 | 2133 | 6411 | 174 |
| PTE 0812A-4N-L3 | 2133 | 6411 | 174 |
| PTE 0812A-4O-L3 | 2133 | 6411 | 174 |
| PTE 1009A-3K-L1 | 2336 | 5910 | 209 |
| PTE 1009A-3L-L1 | 2336 | 5910 | 209 |
| PTE 1009A-3M-L1 | 2336 | 5910 | 209 |
| PTE 1009A-4L-L1 | 2336 | 6215 | 209 |
| PTE 1009A-4M-L1 | 2336 | 6215 | 209 |
| PTE 1009A-4N-L1 | 2336 | 6215 | 209 |
| PTE 1012A-3M-L1 | 2336 | 5987 | 209 |
| PTE 1012A-3N-L1 | 2336 | 5987 | 209 |
| PTE 1012A-3O-L1 | 2336 | 5987 | 209 |
| PTE 1012A-4M-L1 | 2336 | 6291 | 209 |
| PTE 1012A-4N-L1 | 2336 | 6291 | 209 |
| PTE 1012A-4O-L1 | 2336 | 6291 | 209 |
| PTE 1009A-3K-L2 | 2336 | 6215 | 209 |
| PTE 1009A-3L-L2 | 2336 | 6215 | 209 |
| PTE 1009A-3M-L2 | 2336 | 6215 | 209 |
| PTE 1009A-4L-L2 | 2336 | 6825 | 209 |
| PTE 1009A-4M-L2 | 2336 | 6825 | 209 |
| PTE 1009A-4N-L2 | 2336 | 6825 | 209 |
| PTE 1012A-3M-L2 | 2336 | 6291 | 209 |
| PTE 1012A-3N-L2 | 2336 | 6291 | 209 |
| PTE 1012A-3O-L2 | 2336 | 6291 | 209 |
| PTE 1012A-4M-L2 | 2336 | 6596 | 209 |
| PTE 1012A-4N-L2 | 2336 | 6596 | 209 |
| PTE 1012A-4O-L2 | 2336 | 6596 | 209 |
| PTE 1009A-3K-L3 | 2336 | 6520 | 209 |
| PTE 1009A-3L-L3 | 2336 | 6520 | 209 |
| PTE 1009A-3M-L3 | 2336 | 6520 | 209 |
| PTE 1009A-4L-L3 | 2336 | 6825 | 209 |
| PTE 1009A-4M-L3 | 2336 | 6825 | 209 |
| PTE 1009A-4N-L3 | 2336 | 6825 | 209 |
| PTE 1012A-3M-L3 | 2336 | 6596 | 209 |
| PTE 1012A-3N-L3 | 2336 | 6596 | 209 |
| PTE 1012A-3O-L3 | 2336 | 6596 | 209 |



|                 |      |      |     |
|-----------------|------|------|-----|
| PTE 1012A-4M-L3 | 2336 | 6901 | 209 |
| PTE 1012A-4N-L3 | 2336 | 6901 | 209 |
| PTE 1012A-4O-L3 | 2336 | 6901 | 209 |
| PTE 1212A-3M-L1 | 2743 | 6139 | 288 |
| PTE 1212A-3N-L1 | 2743 | 6139 | 288 |
| PTE 1212A-3O-L1 | 2743 | 6139 | 288 |
| PTE 1212A-4N-L1 | 2743 | 6444 | 288 |
| PTE 1212A-4O-L1 | 2743 | 6444 | 288 |
| PTE 1212A-4P-L1 | 2743 | 6444 | 288 |
| PTE 1212A-3M-L2 | 2743 | 6444 | 288 |
| PTE 1212A-3N-L2 | 2743 | 6444 | 288 |
| PTE 1212A-3O-L2 | 2743 | 6444 | 288 |
| PTE 1212A-4N-L2 | 2743 | 6749 | 288 |
| PTE 1212A-4O-L2 | 2743 | 6749 | 288 |
| PTE 1212A-4P-L2 | 2743 | 6749 | 288 |
| PTE 1212A-3M-L3 | 2743 | 6749 | 288 |
| PTE 1212A-3N-L3 | 2743 | 6749 | 288 |
| PTE 1212A-3O-L3 | 2743 | 6749 | 288 |
| PTE 1212A-4N-L3 | 2743 | 7053 | 288 |
| PTE 1212A-4O-L3 | 2743 | 7053 | 288 |
| PTE 1212A-4P-L3 | 2743 | 7053 | 288 |