

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

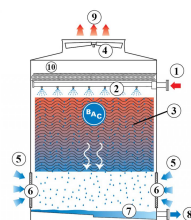
- [PTE open cooling tower](#)
- [PTE open cooling towers - brochure](#)
- [Operating and Maintenance PTE](#)
- [Rigging and Installation PTE](#)

Principle of operation

Open cooling towers

Principle of operation

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.

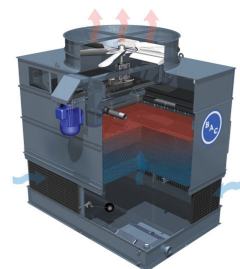
Construction details

Open cooling towers

Construction details

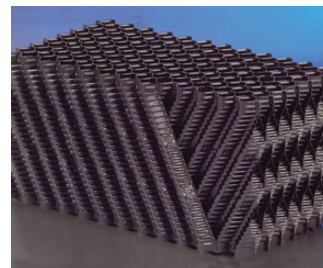
1. Material options

- 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

Options and accessories

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.



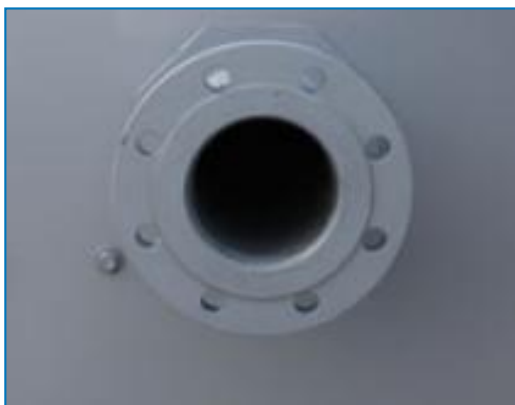
Sump sweeper piping

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 **piping connections** on-site.



Special needs

Open cooling towers

Special needs

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 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.

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.



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](#).

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

PTE 0709A

Open cooling towers

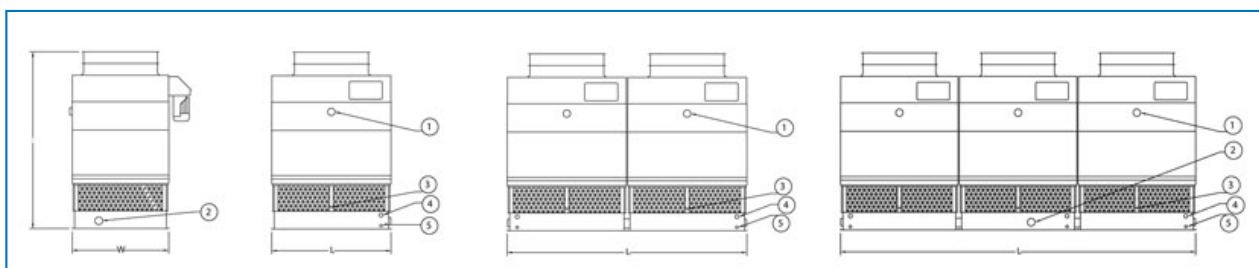
Engineering data

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[PTE cooling tower performance at standard conditions](#)

Last update: 01/07/2021

PTE 0709A



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

Model	Weights (kg)			Dimensions (mm)			Air Flow (m³/s)	Fan Motor (kW)	Fluid Inlet ND (mm)	Fluid Outlet ND (mm)	Make Up ND (mm)
	Oper. Weight (kg)	Ship. Weight(kg)	Heaviest Section (kg)	L	W	H					
PTE 0 709A-3 H-L1	3040	2100	820	2737	2216	3964	14.8	(1x) 4.0	(1x) 150	(1x) 200	(1x) 40
PTE 0 709A-3 J-L1	3050	2100	830	2737	2216	3964	16.7	(1x) 5.5	(1x) 150	(1x) 200	(1x) 40
PTE 0 709A-3 L-L1	3100	2150	880	2737	2216	3964	20.8	(1x) 11.0	(1x) 150	(1x) 200	(1x) 40
PTE 0 709A-4 J-L1	3160	2220	830	2737	2216	4269	15.7	(1x) 5.5	(1x) 150	(1x) 200	(1x) 40
PTE 0 709A-4 K-L1	3170	2230	830	2737	2216	4269	17.2	(1x) 7.5	(1x) 150	(1x) 200	(1x) 40
PTE 0 709A-4 L-L1	3210	2260	830	2737	2216	4269	19.5	(1x) 11.0	(1x) 150	(1x) 200	(1x) 40
PTE 0 709A-3 H-L2	6050	4150	820	5480	2216	4269	29.7	(2x) 4.0	(2x) 150	(2x) 200	(1x) 40
PTE 0 709A-3 J-L2	6060	4160	830	5480	2216	4269	33.8	(2x) 5.5	(2x) 150	(2x) 200	(1x) 40
PTE 0 709A-3 L-L2	6110	4210	880	5480	2216	4269	41.9	(2x) 11.0	(2x) 150	(2x) 200	(1x) 40
PTE 0 709A-4 J-L2	6280	4390	830	5480	2216	4573	31.6	(2x) 5.5	(2x) 150	(2x) 200	(1x) 40
PTE 0 709A-4 K-L2	6290	4400	830	5480	2216	4573	34.6	(2x) 7.5	(2x) 150	(2x) 200	(1x) 40
PTE 0 709A-4 L-L2	6330	4440	830	5480	2216	4573	39.2	(2x) 11.0	(2x) 150	(2x) 200	(1x) 40
PTE 0 709A-3 H-L3	9060	6210	820	8275	2216	4573	45.0	(3x) 4.0	(3x) 150	(3x) 200	(2x) 40
PTE 0 709A-3 J-L3	9060	6220	830	8275	2216	4573	51.2	(3x) 5.5	(3x) 150	(3x) 200	(2x) 40
PTE 0 709A-3 L-L3	9110	6270	880	8275	2216	4573	63.5	(3x) 11.0	(3x) 150	(3x) 200	(2x) 40
PTE 0 709A-4 J-L3	9400	6560	830	8275	2216	4878	47.9	(3x) 5.5	(3x) 150	(3x) 200	(2x) 40
PTE 0 709A-4 K-L3	9410	6570	830	8275	2216	4878	52.3	(3x) 7.5	(3x) 150	(3x) 200	(2x) 40
PTE 0 709A-4 L-L3	9450	6610	830	8275	2216	4878	59.2	(3x) 11.0	(3x) 150	(3x) 200	(2x) 40



PTE 0809A - 0812A

Open cooling towers

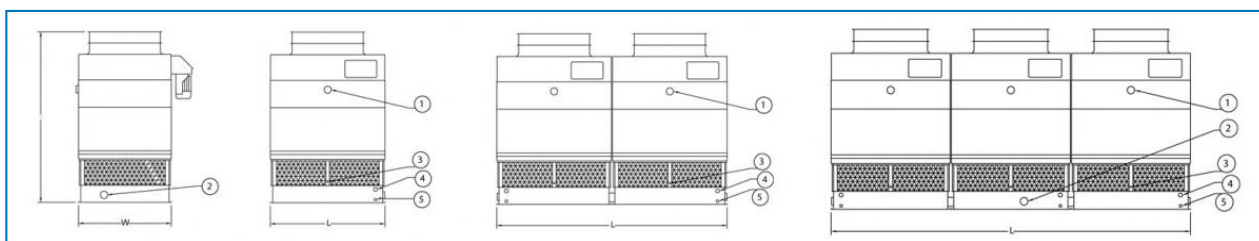
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[PTE cooling tower performance at standard conditions](#)

Last update: 01/07/2021

PTE 0809A - 0812A



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

Model	Weights (kg)			Dimensions (mm)			Air Flow (m³/s)	Fan Motor (kW)	Fluid Inlet ND (mm)	Fluid Outlet ND (mm)	Make Up ND (mm)
	Oper. Weight (kg)	Ship. Weight(kg)	Heaviest Section (kg)	L	W	H					
PTE 0 809A-3 J-L1	3340	2260	880	2737	2394	4002	17.5	(1x) 5.5	(1x) 200	(1x) 200	(1x) 40
PTE 0 809A-3 K-L1	3350	2270	890	2737	2394	4002	19.2	(1x) 7.5	(1x) 200	(1x) 200	(1x) 40
PTE 0 809A-3 L-L1	3390	2310	930	2737	2394	4002	21.8	(1x) 11.0	(1x) 200	(1x) 200	(1x) 40
PTE 0 809A-4 K-L1	3480	2400	920	2737	2394	4307	18.0	(1x) 7.5	(1x) 200	(1x) 200	(1x) 40
PTE 0 809A-4 L-L1	3520	2440	920	2737	2394	4307	20.4	(1x) 11.0	(1x) 200	(1x) 200	(1x) 40
PTE 0 809A-4 M-L1	3530	2450	920	2737	2394	4307	22.2	(1x) 15.0	(1x) 200	(1x) 200	(1x) 40
PTE 0 812A-3 L-L1	4210	2690	940	3651	2394	4116	26.8	(1x) 11.0	(1x) 200	(1x) 200	(1x) 40
PTE 0 812A-3 M-L1	4210	2700	940	3651	2394	4116	29.2	(1x) 15.0	(1x) 200	(1x) 200	(1x) 40
PTE 0 812A-3 N-L1	4250	2730	940	3651	2394	4116	31.5	(1x) 18.5	(1x) 200	(1x) 200	(1x) 40
PTE 0 812A-4 M-L1	4370	2850	1090	3651	2394	4421	27.2	(1x) 15.0	(1x) 200	(1x) 200	(1x) 40
PTE 0 812A-4 N-L1	4400	2880	1090	3651	2394	4421	29.1	(1x) 18.5	(1x) 200	(1x) 200	(1x) 40
PTE 0 812A-4 O-L1	4410	2900	1090	3651	2394	4421	30.9	(1x) 22.0	(1x) 200	(1x) 200	(1x) 40
PTE 0 809A-3 J-L2	6640	4470	880	5480	2394	4307	35.3	(2x) 5.5	(2x) 200	(2x) 200	(1x) 40
PTE 0 809A-3 K-L2	6650	4480	890	5480	2394	4307	38.7	(2x) 7.5	(2x) 200	(2x) 200	(1x) 40
PTE 0 809A-3 L-L2	6680	4520	930	5480	2394	4307	43.9	(2x) 11.0	(2x) 200	(2x) 200	(1x) 40
PTE 0 809A-4 K-L2	6910	4750	920	5480	2394	4611	36.2	(2x) 7.5	(2x) 200	(2x) 200	(1x) 40
PTE 0 809A-4 L-L2	6950	4790	920	5480	2394	4611	41.1	(2x) 11.0	(2x) 200	(2x) 200	(1x) 40
PTE 0 809A-4 M-L2	6960	4800	920	5480	2394	4611	44.7	(2x) 15.0	(2x) 200	(2x) 200	(1x) 40
PTE 0	8320	5290	940	7304	2394	4421	54.4	(2x)	(2x)	(2x)	(1x) 40

812A-3 L-L2								11.0	200	200	
PTE 0 812A-3 M-L2	8330	5300	940	7304	2394	4421	59.4	(2x) 15.0	(2x) 200	(2x) 200	(1x) 40
PTE 0 812A-3 N-L2	8360	5330	940	7304	2394	4421	63.5	(2x) 18.5	(2x) 200	(2x) 200	(1x) 40
PTE 0 812A-4 M-L2	8630	5600	1090	7304	2394	4726	55.2	(2x) 15.0	(2x) 200	(2x) 200	(1x) 40
PTE 0 812A-4 N-L2	8660	5630	1090	7304	2394	4726	59.0	(2x) 18.5	(2x) 200	(2x) 200	(1x) 40
PTE 0 812A-4 O-L2	8680	5650	1090	7304	2394	4726	62.3	(2x) 22.0	(2x) 200	(2x) 200	(1x) 40
PTE 0 809A-3 J-L3	9930	6690	880	8275	2394	4611	53.4	(3x) 5.5	(3x) 200	(3x) 200	(2x) 40
PTE 0 809A-3 K-L3	9940	6700	890	8275	2394	4611	58.5	(3x) 7.5	(3x) 200	(3x) 200	(2x) 40
PTE 0 809A-3 L-L3	9980	6740	930	8275	2394	4611	66.3	(3x) 11.0	(3x) 200	(3x) 200	(2x) 40
PTE 0 809A-4 K-L3	10340	7100	920	8275	2394	4916	54.8	(3x) 7.5	(3x) 200	(3x) 200	(2x) 40
PTE 0 809A-4 L-L3	10380	7140	920	8275	2394	4916	62.0	(3x) 11.0	(3x) 200	(3x) 200	(2x) 40
PTE 0 809A-4 M-L3	10390	7140	920	8275	2394	4916	67.5	(3x) 15.0	(3x) 200	(3x) 200	(2x) 40
PTE 0 812A-3 L-L3	12440	7890	940	11018	2394	4726	82.1	(3x) 11.0	(3x) 200	(3x) 200	(2x) 40
PTE 0 812A-3 M-L3	12440	7900	940	11018	2394	4726	89.7	(3x) 15.0	(3x) 200	(3x) 200	(2x) 40
PTE 0 812A-3 N-L3	12480	7930	940	11018	2394	4726	95.9	(3x) 18.5	(3x) 200	(3x) 200	(2x) 40
PTE 0 812A-4 M-L3	12900	8350	1090	11018	2394	5031	83.3	(3x) 15.0	(3x) 200	(3x) 200	(2x) 40
PTE 0 812A-4 N-L3	12930	8380	1090	11018	2394	5031	89.1	(3x) 18.5	(3x) 200	(3x) 200	(2x) 40
PTE 0 812A-4 O-L3	12950	8400	1090	11018	2394	5031	94.0	(3x) 22.0	(3x) 200	(3x) 200	(2x) 40

PTE 1009A - 1012A

Open cooling towers

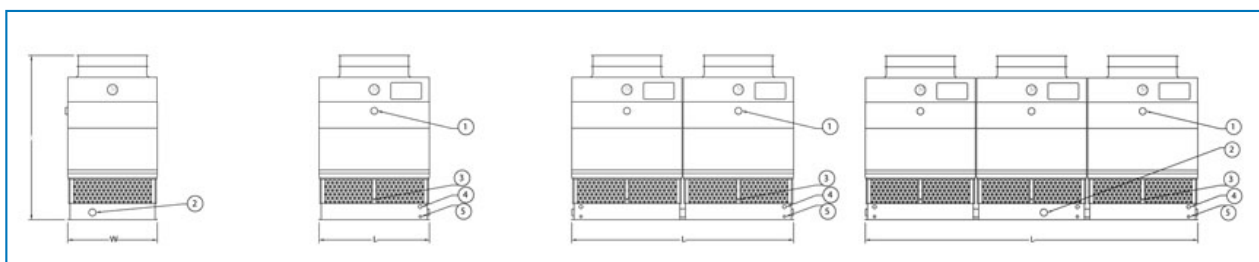
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Last update: 01/07/2021

PTE 1009A - 1012A



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

Model	Weights (kg)			Dimensions (mm)			Air Flow (m³/s)	Fan Motor (kW)	Fluid Inlet ND (mm)	Fluid Outlet ND (mm)	Make Up ND (mm)
	Oper. Weight (kg)	Ship. Weight(kg)	Heaviest Section (kg)	L	W	H					
PTE 1 009A-3 K-L1	3940	2780	1100	2737	2997	4530	22.7	(1x) 7.5	(1x) 200	(1x) 200	(1x) 40
PTE 1 009A-3 L-L1	3980	2810	1130	2737	2997	4530	25.7	(1x) 11.0	(1x) 200	(1x) 200	(1x) 40
PTE 1 009A-3 M-L1	3990	2820	1140	2737	2997	4530	28.1	(1x) 15.0	(1x) 200	(1x) 200	(1x) 40
PTE 1 009A-4 L-L1	4130	2970	1090	2737	2997	4835	23.9	(1x) 11.0	(1x) 200	(1x) 200	(1x) 40
PTE 1 009A-4 M-L1	4140	2970	1090	2737	2997	4835	26.1	(1x) 15.0	(1x) 200	(1x) 200	(1x) 40
PTE 1 009A-4 N-L1	4170	3010	1090	2737	2997	4835	27.9	(1x) 18.5	(1x) 200	(1x) 200	(1x) 40
PTE 1 012A-3 M-L1	4950	3330	1300	3651	2997	4607	34.1	(1x) 15.0	(1x) 200	(1x) 250	(1x) 40
PTE 1 012A-3 N-L1	4990	3360	1330	3651	2997	4607	36.5	(1x) 18.5	(1x) 200	(1x) 250	(1x) 40
PTE 1 012A-3 O-L1	5000	3380	1350	3651	2997	4607	38.6	(1x) 22.0	(1x) 200	(1x) 250	(1x) 40
PTE 1 012A-4 M-L1	5130	3510	1300	3651	2997	4911	31.9	(1x) 15.0	(1x) 200	(1x) 250	(1x) 40
PTE 1 012A-4 N-L1	5170	3540	1300	3651	2997	4911	34.2	(1x) 18.5	(1x) 200	(1x) 250	(1x) 40
PTE 1 012A-4 O-L1	5180	3560	1300	3651	2997	4911	36.0	(1x) 22.0	(1x) 200	(1x) 250	(1x) 40
PTE 1 009A-3 K-L2	7830	5500	1100	5480	2997	4835	45.4	(2x) 7.5	(2x) 200	(2x) 200	(2x) 40
PTE 1 009A-3 L-L2	7860	5540	1130	5480	2997	4835	51.5	(2x) 11.0	(2x) 200	(2x) 200	(2x) 40
PTE 1 009A-3 M-L2	7870	5550	1140	5480	2997	4835	56.2	(2x) 15.0	(2x) 200	(2x) 200	(2x) 40
PTE 1 009A-4 L-L2	8170	5840	1090	5480	2997	5445	47.9	(2x) 11.0	(2x) 200	(2x) 200	(2x) 40
PTE 1 009A-4 M-L2	8170	5850	1090	5480	2997	5445	52.1	(2x) 15.0	(2x) 200	(2x) 200	(2x) 40
PTE 1 009A-4 N-L2	8210	5880	1090	5480	2997	5445	55.7	(2x) 18.5	(2x) 200	(2x) 200	(2x) 40
PTE 1	9810	6560	1300	7328	2997	4911	68.3	(2x)	(2x)	(2x)	(1x) 40

012A-3 M-L2								15.0	200	250	
PTE 1 012A-3 N-L2	9840	6600	1330	7328	2997	4911	73.2	(2x) 18.5	(2x) 200	(2x) 250	(1x) 40
PTE 1 012A-3 O-L2	9860	6610	1350	7328	2997	4911	77.4	(2x) 22.0	(2x) 200	(2x) 250	(1x) 40
PTE 1 012A-4 M-L2	10170	6930	1300	7328	2997	5216	63.9	(2x) 15.0	(2x) 200	(2x) 250	(1x) 40
PTE 1 012A-4 N-L2	10200	6960	1300	7328	2997	5216	68.5	(2x) 18.5	(2x) 200	(2x) 250	(1x) 40
PTE 1 012A-4 O-L2	10220	6970	1300	7328	2997	5216	72.4	(2x) 22.0	(2x) 200	(2x) 250	(1x) 40
PTE 1 009A-3 K-L3	11710	8220	1100	8275	2997	5140	68.9	(3x) 7.5	(3x) 200	(3x) 200	(2x) 40
PTE 1 009A-3 L-L3	11750	8260	1130	8275	2997	5140	78.0	(3x) 11.0	(3x) 200	(3x) 200	(2x) 40
PTE 1 009A-3 M-L3	11760	8270	1140	8275	2997	5140	85.1	(3x) 15.0	(3x) 200	(3x) 200	(2x) 40
PTE 1 009A-4 L-L3	12200	8710	1090	8275	2997	5445	72.4	(3x) 11.0	(3x) 200	(3x) 200	(2x) 40
PTE 1 009A-4 M-L3	12210	8720	1090	8275	2997	5445	78.9	(3x) 15.0	(3x) 200	(3x) 200	(2x) 40
PTE 1 009A-4 N-L3	12240	8750	1090	8275	2997	5445	84.3	(3x) 18.5	(3x) 200	(3x) 200	(2x) 40
PTE 1 012A-3 M-L3	14660	9790	1300	11018	2997	5216	103.5	(3x) 15.0	(3x) 200	(3x) 250	(2x) 40
PTE 1 012A-3 N-L3	14690	9830	1330	11018	2997	5216	110.9	(3x) 18.5	(3x) 200	(3x) 250	(2x) 40
PTE 1 012A-3 O-L3	14710	9840	1350	11018	2997	5216	117.2	(3x) 22.0	(3x) 200	(3x) 250	(2x) 40
PTE 1 012A-4 M-L3	15200	10340	1300	11018	2997	5521	96.7	(3x) 15.0	(3x) 200	(3x) 250	(2x) 40
PTE 1 012A-4 N-L3	15240	10370	1300	11018	2997	5521	103.5	(3x) 18.5	(3x) 200	(3x) 250	(2x) 40
PTE 1 012A-4 O-L3	15250	10390	1300	11018	2997	5521	109.4	(3x) 22.0	(3x) 200	(3x) 250	(2x) 40

Open cooling towers

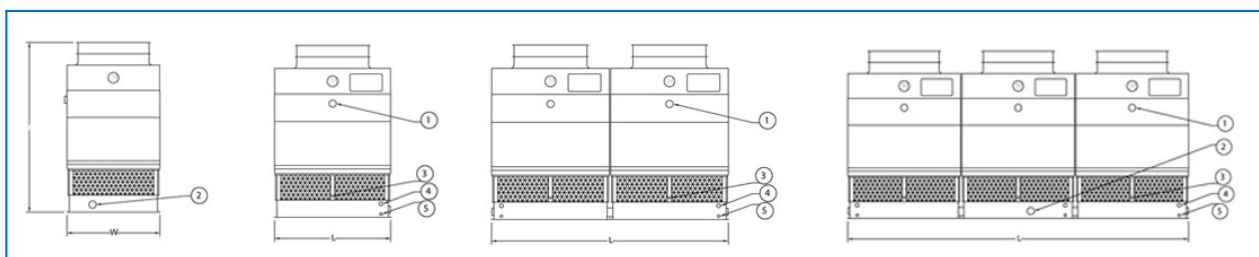
Engineering data

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PTE cooling tower performance at standard conditions

Last update: 01/07/2021

PTE 1212A



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

Model	Weights (kg)			Dimensions (mm)			Air Flow (m³/s)	Fan Motor (kW)	Fluid Inlet ND (mm)	Fluid Outlet ND (mm)	Make Up ND (mm)
	Oper. Weight (kg)	Ship. Weight(kg)	Heaviest Section (kg)	L	W	H					
PTE 1 212A-3 M-L1	5620	3810	1420	3651	3607	4759	39.9	(1x) 15.0	(1x) 200	(1x) 250	(1x) 40
PTE 1 212A-3 N-L1	5650	3840	1460	3651	3607	4759	42.8	(1x) 18.5	(1x) 200	(1x) 250	(1x) 40
PTE 1 212A-3 O-L1	5660	3860	1470	3651	3607	4759	45.2	(1x) 22.0	(1x) 200	(1x) 250	(1x) 40
PTE 1 212A-4 N-L1	5870	4060	1510	3651	3607	5064	40.4	(1x) 18.5	(1x) 200	(1x) 250	(1x) 40
PTE 1 212A-4 O-L1	5880	4080	1510	3651	3607	5064	42.7	(1x) 22.0	(1x) 200	(1x) 250	(1x) 40
PTE 1 212A-4 P-L1	5940	4130	1510	3651	3607	5064	46.5	(1x) 30.0	(1x) 200	(1x) 250	(1x) 40
PTE 1 212A-3 M-L2	11130	7520	1420	7328	3607	5064	79.7	(2x) 15.0	(2x) 200	(2x) 250	(1x) 40
PTE 1 212A-3 N-L2	11160	7560	1460	7328	3607	5064	85.4	(2x) 18.5	(2x) 200	(2x) 250	(1x) 40
PTE 1 212A-3 O-L2	11180	7570	1470	7328	3607	5064	90.3	(2x) 22.0	(2x) 200	(2x) 250	(1x) 40
PTE 1 212A-4 N-L2	11600	7990	1510	7328	3607	5369	80.8	(2x) 18.5	(2x) 200	(2x) 250	(1x) 40
PTE 1 212A-4 O-L2	11620	8010	1510	7328	3607	5369	85.3	(2x) 22.0	(2x) 200	(2x) 250	(1x) 40
PTE 1 212A-4 P-L2	11670	8070	1510	7328	3607	5369	92.9	(2x) 30.0	(2x) 200	(2x) 250	(1x) 40
PTE 1 212A-3 M-L3	16650	11230	1420	11018	3607	5369	120.5	(3x) 15.0	(3x) 200	(3x) 250	(2x) 40
PTE 1 212A-3 N-L3	16680	11270	1460	11018	3607	5369	129.1	(3x) 18.5	(3x) 200	(3x) 250	(2x) 40
PTE 1 212A-3 O-L3	16690	11280	1470	11018	3607	5369	136.4	(3x) 22.0	(3x) 200	(3x) 250	(2x) 40
PTE 1 212A-4 N-L3	17340	11930	1510	11018	3607	5673	121.8	(3x) 18.5	(3x) 200	(3x) 250	(2x) 40
PTE 1 212A-4 O-L3	17350	11940	1510	11018	3607	5673	128.7	(3x) 22.0	(3x) 200	(3x) 250	(2x) 40
PTE 1 212A-4 P-L3	17410	12000	1510	11018	3607	5673	140.2	(3x) 30.0	(3x) 200	(3x) 250	(2x) 40



Sound attenuation

Open cooling towers

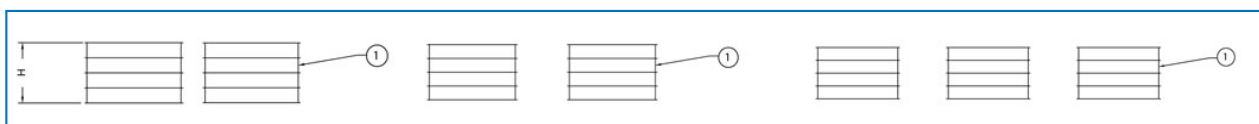
Engineering data

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[PTE cooling tower performance at standard conditions](#)

Last update: 01/07/2021

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