



S3000D

Previous generation products



Key benefits

- Low maintenance and easy inspection
- Ultra silent design
- Low energy consumption

S3000D characteristics

Cross flow, axial fan, induced draft

Capacity range

30 - 285 l/s

Water distribution

Gravity

Maximum entering water temperature

55°C standard fill
60°C with alternative fill

Typical applications

- Medium to large HVAC and industrial applications
- Replacement of field erected towers

Low maintenance and easy inspection

- The S3000D has a **spacious plenum** (internal area) and **easy access** to inspect and maintain safely the unit interior components. **Unrivalled comfort, while standing** inside.
- Upgrade the unit interior with **ladder and platform** for quick and safe access to all unit components.
- **Access via large hinged door to optional internal walkway:** no basin draining needed for unit interior or fill pack inspection.
- The **BACross II fill** is **telescopically supported**; you can inspect and clean the core easily, **sheet by sheet without dismantling**. BACross II design reduces fouling.
- The fill includes integrated **drift eliminators** tested and certified by Eurovent.
- Inspection of **water distribution system** (hot water basin and nozzles) possible outside the unit, **during operation**.
- Optional **distribution basin covers** prevent debris collecting in the unit.
- Self-cleaning cold water basin and fill above **sloped basin** to flush out dirt and debris.
- **Fans** are easily accessible from the in- and outside
- Optional **clean out port** helps remove silt and sludge from the cooling tower basin.
- Removable **suction strainer** anti-vortex hood.
- Optional **sump sweeper piping** prevents sediment collecting in the cold water basin.
- Various corrosion-resistant materials, including the unique **Baltibond hybrid coating** for guaranteed long service life.

Ultra silent design

- S3000D units include **low noise axial fans** for minimal surrounding noise. To reduce noise even further, choose for **Whisper Quiet fans**.
- Factory designed, tested and rated **sound attenuation** is available on air inlet and discharge to cut operation noise even further.
- **BACross II fill** guides smoothly the water all the way into the basin **without water splash noise**.

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.
- **Save pump kW!** Less pump head for this gravity water distribution system.
- **BACross II fill** – factory-configured for maximum water/air contact and low air pressure drop for optimal cooling tower efficiency with limited energy consumption.
- **High efficiency fan motors**

Unmatched hygiene control

- Easy-clean and easy-inspect S3000D 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.



- BACross II fill for reduced fouling and easy sheet by sheet cleaning without dismantling.
- The fill includes integrated **drift eliminators** tested and certified by Eurovent.
- **Combined inlet shields** block sunlight to prevent biological growth in the tower, filter the air and stop water splashing outside.
- Optional distribution basin covers prevent debris collecting in the unit.
- Optional clean out port helps remove silt and sludge from the cooling tower basin.
- Optional sump sweeper piping prevents sediment collecting in the cold water basin.

Year round reliable operation

- Top rated thermal performance - meets **any flow and temperature needs**.
- Patented BACross II sheet fill with **maximum air and water contact** gives unbeatable heat transfer performance.
- Various **corrosion-resistant** materials, including the unique Baltibond hybrid coating and FRP casing panels for guaranteed long service life.
- Optional gear-drive system for more efficiency and less maintenance.

Want to use the S3000D cooling tower to cool your process water? Contact your local BAC representative.

Downloads

- S - S3000D (EN)
- M - S3000D (EN)
- R - S3000D (EN)

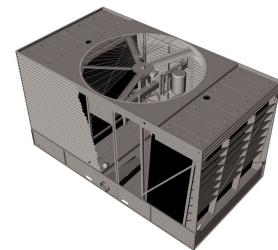
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Construction details

1. Material options

- Heavy-gauge hot-dip galvanized steel is used for external unit steel panels and structural elements featuring [Baltiplus Corrosion Protection](#).
- For casing panels we use UV resistant **fiberglass** reinforced polyester. 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 stainless steel**](#) panels and structural elements of type 304 or 316 for extreme applications.
- Or the economical alternative: a **water-contact stainless steel cold (and hot) 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 patented [BACross II fill](#) with integrated **drift eliminators** certified by Eurovent. Thermal cooling tower performance was shown in comprehensive [lab thermal performance tests](#) and offers you unrivalled system efficiency.
- The fill pack includes individual **sheets and a telescopic fill support**. Sheets are easy to inspect and clean inside the tower without dismantling, eliminating the need for frequent fill replacement.
- In self-extinguishing **plastic**, which will not rot, decay or decompose.
- For operation above 55°C, try our **optional high temperature fill**, usable with intake water up to 60°C.



3. Air movement system

- S3000D **fan system** features two corrosion resistant sheaves, belt and motor. Together with the heavy duty fan shaft bearings and the moisture protected 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. To reduce noise even further, choose for a [Whisper Quiet fan](#) with minimal impact on thermal performance.
- 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:

- **Low pump gravity water distribution basin** with wide non-clog plastic nozzles for uniform water distribution. You can easily clean and flush both nozzles and basin.
- A **sloped cold water basin** with:
 - large hinged and inward swinging **access** door
 - anti-vortexing **strainers** and **make up** both easily accessible from inside the unit.



Need more information? Contact your local [BAC representative](#).

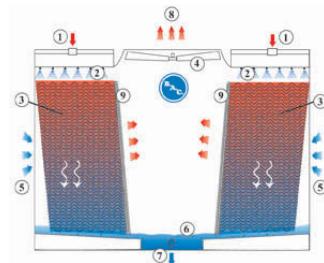


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Previous generation products

Principle of operation

Warm process **water (1)** from the heat source enters the **water distribution system (2)** at the top of the cooling tower on both sides 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 (5)** from the sides of the unit over the fill. 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 (6)** or basin collects the cooled water after which it returns to the **heat source of the process (7)**. The warm saturated **air (8)** first passes through the **drift eliminators (9)**, which remove water droplets from the air, and then exits the tower at the top.



You want to use the S3000D cooling tower to cool your process water? Contact your local [BAC representative](#).



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Options and accessories

Below is a listing of the main S3000D options and accessories. If your required option or accessory is not listed, look no further than your [local BAC representative](#).



Sound attenuation

Reducing noise at air **intake and discharge points** brings us closer to silent cooling equipment.
[Read more](#)



Whisper Quiet fan

Reduce fan noise even more with **very low sound factory-tested fans**.
[Read more](#)



Gear drive system with close coupled motor

A close-coupled gear box for **more efficiency** and **less maintenance**.
[Read more](#)



Gear drive system with externally mounted motor

A gear box with an external motor outside the air stream helps **improve efficiency** and **ease of maintenance**. [Read more](#)



Velocity recovery stacks

To boost capacity in confined spaces, select a velocity recovery stack on top of the fan cylinder. [Read more](#)



Internal service platform

An internal platform helping you **access the unit top inside** and safely inspect your cooling towers. [Read more](#)



Internal walkway

An internal walkway for **easy access to the unit water basin**. [Read more](#)



Ladder, safety cage and handrail

A ladder, safety cage and handrails **all facilitate access to the top of the unit** and safe inspection of your cooling tower. [Read more](#)



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. [Read more](#)



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. [Read more](#)



Extended lubrication lines

Extended lubrication lines with easily accessible grease fittings can be used to **lubricate** fan shaft bearings. [Read more.](#)



Electric water level control package

For perfectly precise water level control, replace the standard mechanical valve with our electrical water level controller. [Read more](#)



Mechanical equipment removal system

This helps you remove or install fan motors or gearboxes. [Read more](#)



Vibration cut out switch

When excessive vibration occurs, this switch shuts down the fan, ensuring your cooling equipment operates safely. [Read more](#)



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. [Read more](#)



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. [Read more](#)



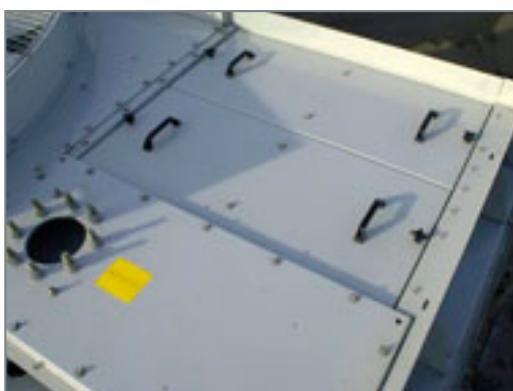
Filter

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. [Read more](#)



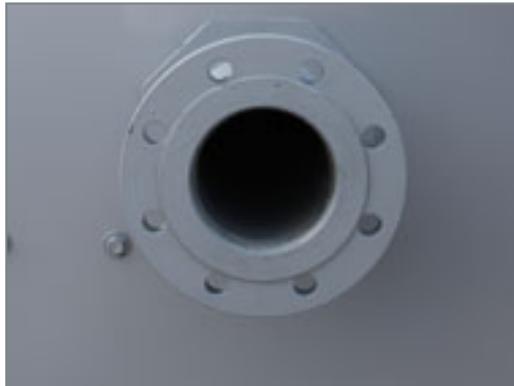
Clean out port

Clean out port **makes it easy to eliminate silt and sludge** from the cooling tower basin when cleaning and flushing the sump. [Read more](#)



Distribution basin covers

Distribution basin covers on unit tops **prevent debris collecting** in unit water distribution basins. [Read more](#)



Flanges

Flanges facilitate **piping connections** on-site. [Read more](#)



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Engineering data

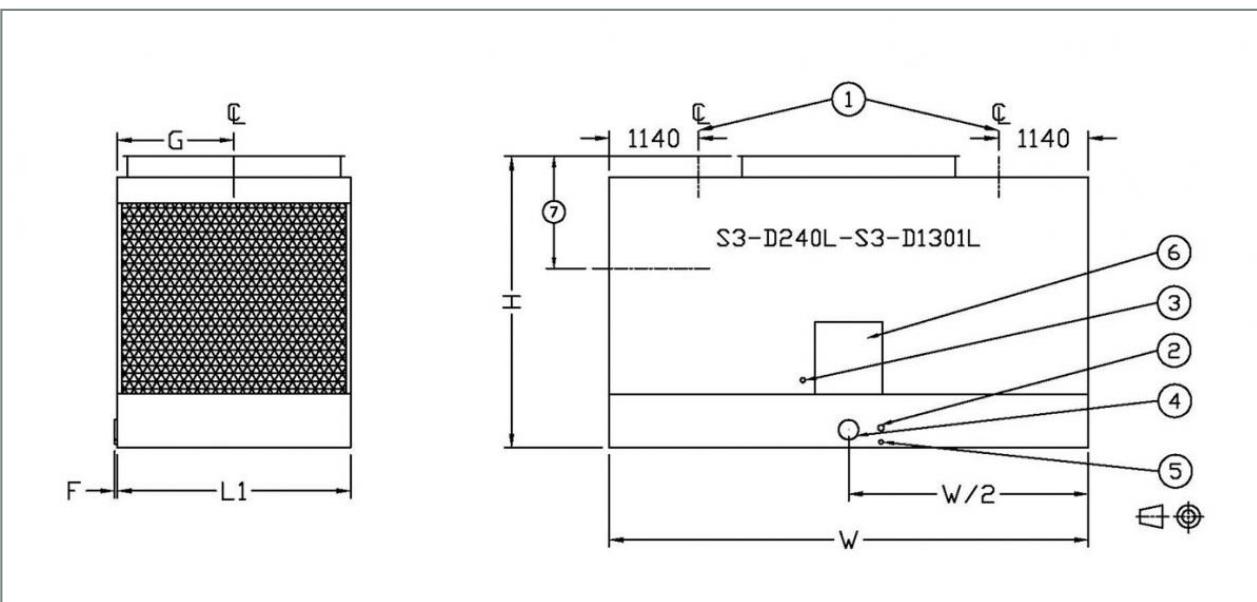
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5. Models with an optional Velocity Recovery Stack can be up to 1500 mm higher
6. Intake attenuators are shipped installed for single cell units. For 2 or more cells, consult factory.

Last update: 07 July 2014

S3000D 240L-1301L



1. Water in; 2. Overflow ND80; 3. Make up; 4. Water out; 5. Drain ND50; 6. Access door; 7. S3-D728 L thru S3-D1056 L and S3-D1132 L thru S3-D1301 L ship in two sections per cell. The top section is the heaviest and tallest. Top section heights are: S3-D728 L thru S3-D970 L: 3125 mm; S3-D1132 L: 3330 mm; S3-D985 L thru S3-D1056 L: 3533 mm; S3-D1213 L: 3736 mm; S3-D1301 L: 3822 mm.

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					
S3-D 240 JL	6706	3083	3083	2585	5500	2840	25.7	(1x) 5.5	(2x) 150	(1x) 200	(1x) 25
S3-D 240 L	6706	3083	3083	2585	5500	2840	28.1	(1x) 7.5	(2x) 150	(1x) 200	(1x) 25
S3-D 272 L	6765	3142	3142	2585	5500	2840	32.0	(1x) 11.0	(2x) 150	(1x) 200	(1x) 25
S3-D 299 L	6792	3169	3169	2585	5500	2840	35.0	(1x) 15.0	(2x) 150	(1x) 200	(1x) 25
S3-D 333 JL	7151	3296	3296	2585	5500	3247	28.2	(1x) 5.5	(2x) 150	(1x) 200	(1x) 25
S3-D 333 KL	7151	3296	3296	2585	5500	3247	30.9	(1x) 7.5	(2x) 150	(1x) 200	(1x) 25
S3-D 333 L	7151	3296	3296	2585	5500	3247	38.4	(1x) 15.0	(2x) 150	(1x) 200	(1x) 25
S3-D 333 LL	7151	3296	3296	2585	5500	3247	35.1	(1x) 11.0	(2x) 150	(1x) 200	(1x) 25
S3-D 358 L	7164	3310	3310	2585	5500	3247	41.2	(1x) 18.5	(2x) 150	(1x) 200	(1x) 25
S3-D 379 L	7187	3332	3332	2585	5500	3437	43.7	(1x) 22.0	(2x) 150	(1x) 200	(1x) 25
S3-D 412 JL	8435	3823	3823	2980	6110	3247	31.8	(1x) 5.5	(2x) 150	(1x) 200	(1x) 40
S3-D 412 KL	8435	3823	3823	2980	6110	3247	34.8	(1x) 7.5	(2x) 150	(1x) 200	(1x) 40
S3-D 412 L	8435	3823	3823	2980	6110	3247	46.5	(1x) 18.5	(2x) 150	(1x) 200	(1x) 40
S3-D 412 LL	8435	3823	3823	2980	6110	3247	39.6	(1x) 11.0	(2x) 150	(1x) 200	(1x) 40
S3-D 412 ML	8435	3823	3823	2980	6110	3247	43.3	(1x) 15.0	(2x) 150	(1x) 200	(1x) 40
S3-D 436 L	8458	3845	3845	2980	6110	3437	49.2	(1x) 22.0	(2x) 150	(1x) 200	(1x) 40
S3-D 455 KL	8844	3968	3968	2980	6110	3653	37.7	(1x) 7.5	(2x) 150	(1x) 250	(1x) 40
S3-D 455 L	8844	3968	3968	2980	6110	3653	50.3	(1x) 18.5	(2x) 150	(1x) 250	(1x) 40
S3-D 455 LL	8844	3968	3968	2980	6110	3653	42.8	(1x) 11.0	(2x) 150	(1x) 250	(1x) 40
S3-D 455 ML	8844	3968	3968	2980	6110	3653	46.9	(1x) 15.0	(2x) 150	(1x) 250	(1x) 40
S3-D 482 L	8867	3991	3991	2980	6110	3843	53.3	(1x) 22.0	(2x) 150	(1x) 250	(1x) 40
S3-D 527 L	8939	4063	4063	2980	6110	3843	58.4	(1x) 30.0	(2x) 150	(1x) 250	(1x) 40
S3-D 473 KL	10483	4626	4626	3600	6566	3437	39.9	(1x) 7.5	(2x) 200	(1x) 250	(1x) 40
S3-D 473 L	10483	4626	4626	3600	6566	3437	53.3	(1x) 18.5	(2x) 200	(1x) 250	(1x) 40
S3-D 473 LL	10483	4626	4626	3600	6566	3437	45.4	(1x) 11.0	(2x) 200	(1x) 250	(1x) 40
S3-D 473 ML	10483	4626	4626	3600	6566	3437	49.7	(1x) 15.0	(2x) 200	(1x) 250	(1x) 40
S3-D 501 L	10506	4649	4649	3600	6566	3437	56.4	(1x) 22.0	(2x) 200	(1x) 250	(1x) 40
S3-D	11663	4903	4903	3600	6566	3843	61.1	(1x)	(2x)	(1x)	(1x) 40

							22.0	200	250		
552 L											
S3-D 552 LL	11663	4903	4903	3600	6566	3843	49.1	(1x) 11.0	(2x) 200	(1x) 250	(1x) 40
S3-D 552 ML	11663	4903	4903	3600	6566	3843	53.7	(1x) 15.0	(2x) 200	(1x) 250	(1x) 40
S3-D 552 NL	11663	4903	4903	3600	6566	3843	57.6	(1x) 18.5	(2x) 200	(1x) 250	(1x) 40
S3-D 604 L	11736	4976	4976	3600	6566	3843	66.8	(1x) 30.0	(2x) 200	(1x) 250	(1x) 40
S3-D 648 L	11740	4980	4980	3600	6566	3843	71.7	(1x) 37.0	(2x) 200	(1x) 250	(1x) 40
S3-D 672 L	12285	5530	5530	3600	6566	3843	74.4	(1x) 45.0	(2x) 200	(1x) 250	(1x) 40
S3-D 728 L	14555	6251	3959	3600	6566	5110	80.2	(1x) 30.0	(2x) 200	(1x) 300	(1x) 40
S3-D 728 NL	14555	6251	3959	3600	6566	5110	69.2	(1x) 18.5	(2x) 200	(1x) 300	(1x) 40
S3-D 728 OL	14555	6251	3959	3600	6566	5110	73.2	(1x) 22.0	(2x) 200	(1x) 300	(1x) 40
S3-D 781 L	14560	6256	3963	3600	6566	5110	86.0	(1x) 37.0	(2x) 200	(1x) 300	(1x) 40
S3-D 828 L	14660	6351	4059	3600	6566	5110	91.1	(1x) 45.0	(2x) 200	(1x) 300	(1x) 40
S3-D 872 L	15904	6583	3995	3600	6566	5923	92.6	(1x) 37.0	(2x) 200	(1x) 300	(1x) 40
S3-D 872 OL	15904	6583	3995	3600	6566	5923	78.9	(1x) 22.0	(2x) 200	(1x) 300	(1x) 40
S3-D 872 PL	15904	6583	3995	3600	6566	5923	86.4	(1x) 30.0	(2x) 200	(1x) 300	(1x) 40
S3-D 923 L	16004	6678	4091	3600	6566	5923	98.1	(1x) 45.0	(2x) 200	(1x) 300	(1x) 40
S3-D 970 L	16585	7264	4676	3600	6566	5923	103.2	(1x) 55.0	(2x) 200	(1x) 300	(1x) 40
S3-D 985 L	18269	7064	4295	3600	6566	6737	103.1	(1x) 45.0	(2x) 200	(1x) 300	(1x) 40
S3-D 985 PL	18269	7064	4295	3600	6566	6737	90.7	(1x) 30.0	(2x) 200	(1x) 300	(1x) 40
S3-D 985 QL	18269	7064	4295	3600	6566	6737	97.3	(1x) 37.0	(2x) 200	(1x) 300	(1x) 40
S3-D 1056 L	18310	7105	4336	3600	6566	6737	110.6	(1x) 55.0	(2x) 200	(1x) 300	(1x) 40
S3-D 583 L	13756	5480	5480	4245	7328	3653	64.5	(1x) 18.5	(2x) 200	(1x) 300	(1x) 40
S3-D 583 ML	13756	5480	5480	4245	7328	3653	60.2	(1x) 15.0	(2x) 200	(1x) 300	(1x) 40
S3-D 618 L	13779	5502	5502	4245	7328	3843	68.4	(1x) 22.0	(2x) 200	(1x) 300	(1x) 40
S3-D 676 L	13852	5575	5575	4245	7328	3843	74.8	(1x) 30.0	(2x) 200	(1x) 300	(1x) 40
S3-D 725 L	13856	5580	5580	4245	7328	3843	80.3	(1x) 37.0	(2x) 200	(1x) 300	(1x) 40
S3-D 1132 L	18746	7540	4644	4245	7328	5923	120.1	(1x) 55.0	(2x) 250	(1x) 350	(1x) 50
S3-D 1132 PL	18746	7540	4644	4245	7328	5923	98.5	(1x) 30.0	(2x) 250	(1x) 350	(1x) 50
S3-D 1132 QL	18746	7540	4644	4245	7328	5923	105.7	(1x) 37.0	(2x) 250	(1x) 350	(1x) 50
S3-D 1132	18746	7540	4644	4245	7328	5923	111.9	(1x) 45.0	(2x) 250	(1x) 350	(1x) 50



RL											
S3-D 1213 L	20112	7968	4867	4245	7328	6737	126.4	(1x) 55.0	(2x) 250	(1x) 350	(1x) 50
S3-D 1213 QL	20112	7968	4867	4245	7328	6737	111.3	(1x) 37.0	(2x) 250	(1x) 350	(1x) 50
S3-D 1213 RL	20112	7968	4867	4245	7328	6737	117.9	(1x) 45.0	(2x) 250	(1x) 350	(1x) 50
S3-D 1301 L	21151	9007	5906	4245	7328	6737	135.7	(1x) 75.0	(2x) 250	(1x) 350	(1x) 50



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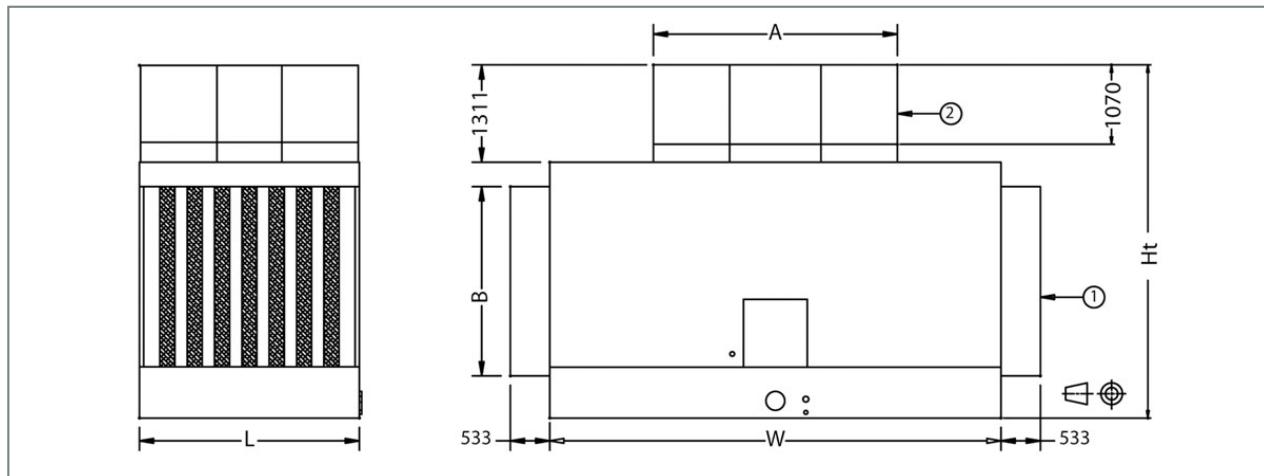
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Sound attenuation S3000D-240L-725L



1. Intake attenuator; 2. Discharge attenuator

Model	Dimensions (mm)			Weights (kg)	
	A	B	Ht	Discharge	Intake
S3-D 240 JL	2585	1715	4555	350	340
S3-D 240 L	2585	1715	4555	350	340
S3-D 272 L	2585	1715	4555	350	340
S3-D 299 L	2585	1715	4555	350	340
S3-D 333 JL	2585	2121	5368	350	420
S3-D 333 KL	2585	2121	5368	350	420
S3-D 333 L	2585	2121	5368	350	420
S3-D 333 LL	2585	2121	5368	350	420
S3-D 358 L	2585	2121	5368	350	420
S3-D 379 L	2585	2121	5558	350	420
S3-D 412 JL	2980	2121	5368	400	480
S3-D 412 KL	2980	2121	5368	400	480
S3-D 412 L	2980	2121	5368	400	480
S3-D 412 LL	2980	2121	5368	400	480
S3-D 412 ML	2980	2121	5368	400	480
S3-D 436 L	2980	2121	5558	400	480
S3-D 455 KL	2980	2527	6180	400	577
S3-D 455 L	2980	2527	6180	400	577
S3-D 455 LL	2980	2527	6180	400	577
S3-D 455 ML	2980	2527	6180	400	577
S3-D 482 L	2980	2527	6370	400	577
S3-D 527 L	2980	2527	6370	400	577
S3-D 473 KL	3600	2121	5558	460	580
S3-D 473 L	3600	2121	5558	460	580
S3-D 473 LL	3600	2121	5558	460	580
S3-D 473 ML	3600	2121	5558	460	580
S3-D 501 L	3600	2121	5558	460	580
S3-D 552 L	3600	2527	6370	460	690
S3-D 552 LL	3600	2527	6370	460	690
S3-D 552 ML	3600	2527	6370	460	690
S3-D 552 NL	3600	2527	6370	460	690
S3-D 604 L	3600	2527	6370	460	690
S3-D 648 L	3600	2527	6370	460	690
S3-D 672 L	3600	2527	6370	460	690
S3-D 583 L	4245	2527	6180	550	810
S3-D 583 ML	4245	2527	6180	550	810
S3-D 618 L	4245	2527	6370	550	810
S3-D 676 L	4245	2527	6370	550	810
S3-D 725 L	4245	2527	6370	550	810



S3000D

Previous generation products

Engineering data

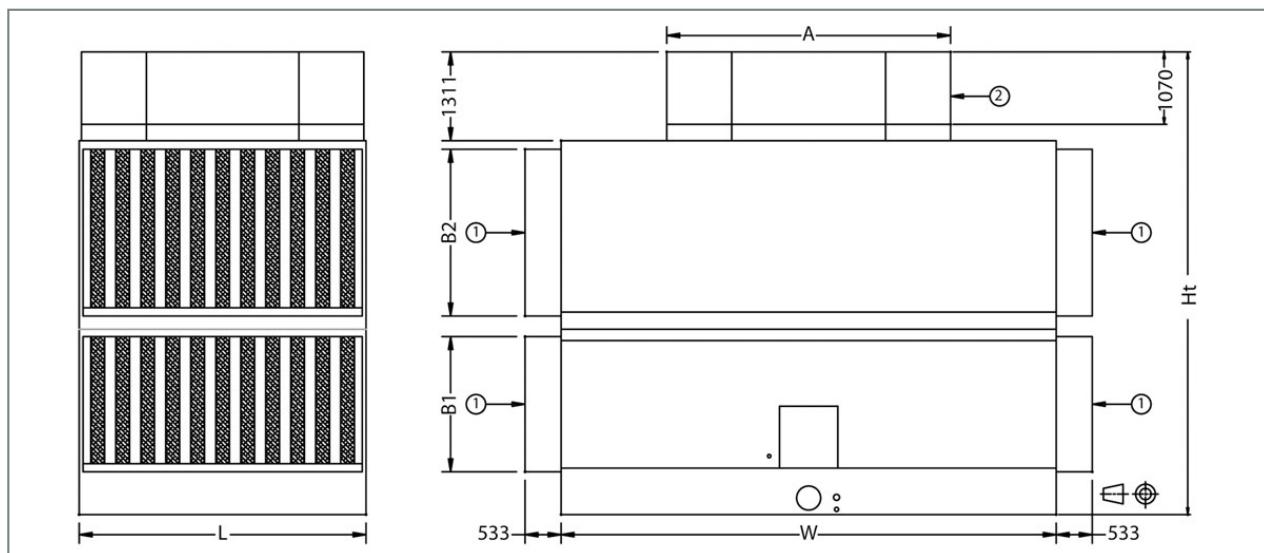
REMARK: Do not use for construction. Refer to factory certified dimensions & weights. This page includes data current at time of publication, which should be reconfirmed at the time of purchase. In the interest of product improvement, specifications, weights and dimensions are subject to change without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

General notes

1. Operating weight is for tower with the water level in the cold water basin at overflow. If a lower operating weight is needed to meet design requirements, your local BAC Balticare representative can provide additional assistance.
2. Heights are for units with belt drive, except for models with motor 55kW and larger where gear drive is standard (= S3-D971L, S3-D 1056L, S3-D11232L, S3-D1213L, S3-D1301L)
3. Models with motors of 22 to 55 kW are shipped an optional gear drive and may have heights up to 190 mm greater than shown.
4. Models with optional Whisper Quiet Fan may have heights up to 1000 mm greater than shown.
5. Models with an optional Velocity Recovery Stack can be up to 1500 mm higher
6. Intake attenuators are shipped installed for single cell units. For 2 or more cells, consult factory.

Last update: 07 July 2014

Sound attenuation S3000D-728L-1301L



1. Intake sound attenuation; 2. Discharge attenuation.

Model	Dimensions (mm)			Discharge	Weights (kg)	
	A	B	Ht		Weight Lower Intake Attenuator (both) (2) (3) (kg)	Weight Upper Intake Attenuator(both) (2) (3) (kg)
S3-D 728 L	3600	994	6104	480	270	640
S3-D 728 NL	3600	994	6104	480	270	640
S3-D 728 OL	3600	994	6104	480	270	640
S3-D 781 L	3600	994	6104	480	270	640
S3-D 828 L	3600	994	6104	480	270	640
S3-D 872 L	3600	1807	7730	480	500	640
S3-D 872 OL	3600	1807	7730	480	500	640
S3-D 872 PL	3600	1807	7730	480	500	640
S3-D 923 L	3600	1807	7730	480	500	640
S3-D 970 L	3600	1807	7730	480	500	640
S3-D 985 L	3600	2213	8950	500	500	750
S3-D 985 PL	3600	2213	8950	500	500	750
S3-D 985 QL	3600	2213	8950	500	500	750
S3-D 1056 L	3600	2213	8950	500	500	750
S3-D 1132 L	4245	1807	7730	570	580	750
S3-D 1132 PL	4245	1807	7730	570	580	750
S3-D 1132 QL	4245	1807	7730	570	580	750
S3-D 1132 RL	4245	1807	7730	570	580	750
S3-D 1213 L	4245	2213	8950	570	710	880
S3-D 1213 QL	4245	2213	8950	570	710	880
S3-D 1213 RL	4245	2213	8950	570	710	880
S3-D 1301 L	4245	2213	8950	570	710	880