

Phoenix PL™

All-Fiberglass Counterflow

Heavy-Duty Modular Cooling Tower

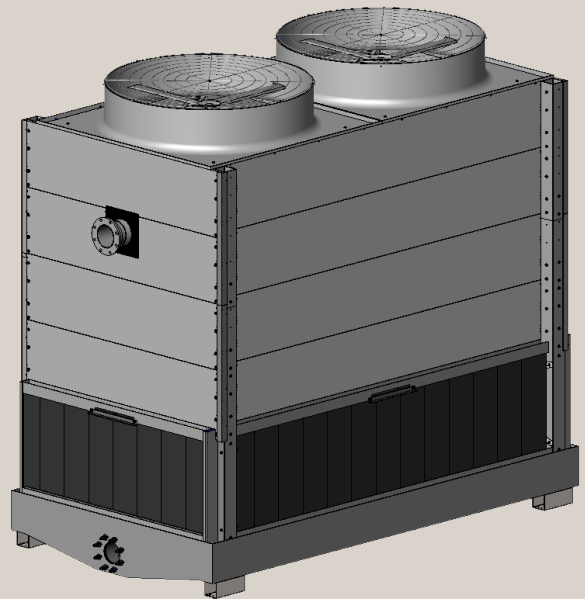
We do things differently and it makes all the difference for you.™

Phoenix PL

Ideal for small footprint, low-capacity applications

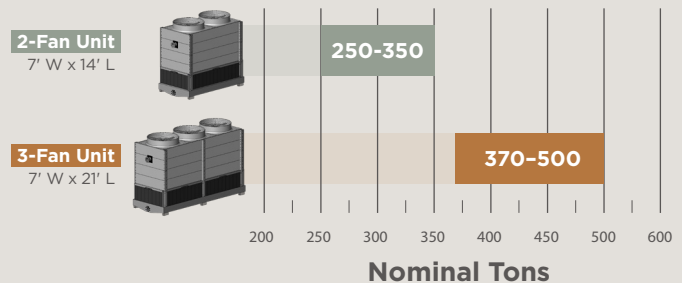
The CCS Phoenix PL is the modular version of the Phoenix fiberglass cooling tower, providing the same exceptional Phoenix value and performance, along with rapid installation, low lifetime maintenance, and a 50-year life expectancy.

The Phoenix PL features single-point electrical and piping connections as well as state-of-the-art direct drive system for each fan. The Phoenix PL is the perfect cooling tower for owners and operators with greywater, high TSS levels or high cycles of concentration. FM Approval is available depending on the application.



Thermal Capacities

The Phoenix PL is available in three different box sizes, with fill options that meet your performance demands and accommodate a wide range of water quality environments.



A 7' W x 7' L 120-140 ton single-fan unit is also available.

Available Options

- Fill type options for different water quality environments
- Basin heater
- Mechanical or electronic water level controller
- 316 stainless steel column anchors
- Single-point electrical connection



Five-year CCS-direct warranty from fan to basin and everything in between.



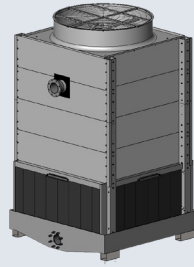
The Phoenix PL can be configured to be FM Approved per Approvals Class 4930.



Manufacturers published thermal performance is certified by the Cooling Technology Institute under the provisions of STD-201 (15).
Certification Validation Number: C79B-20R00

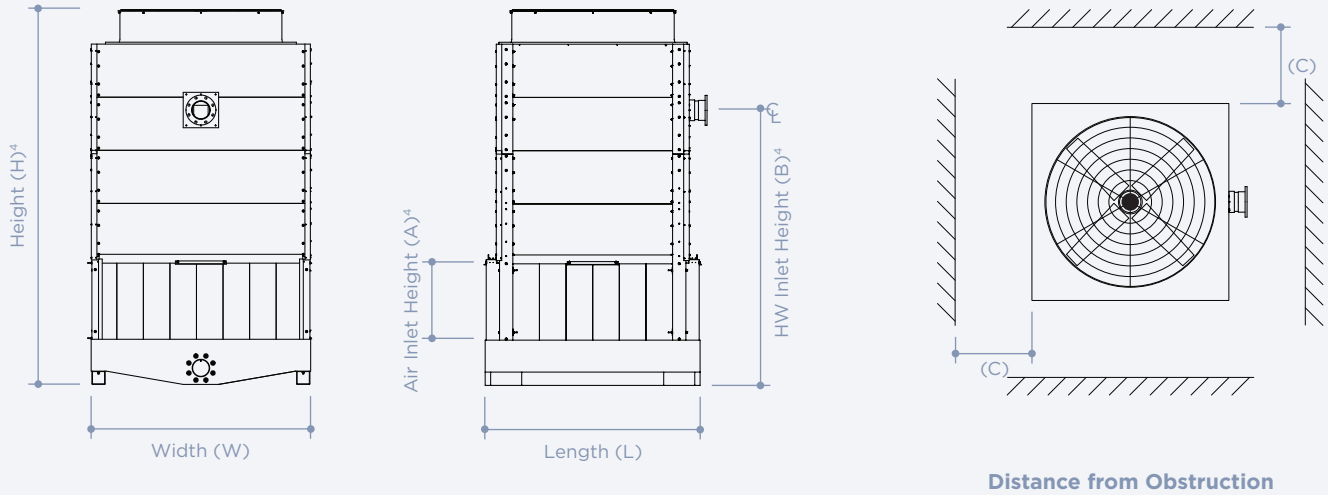
ISO 9001:2015

The Phoenix PL is ideal for heavy duty applications.



Phoenix PL™ Engineering Data

Phoenix PL 1-Fan Unit



This information is intended for guidelines and preliminary information only. Do not use for construction.
Adequate clearance for air supply must be maintained around the tower. Consult your CCS representative for assistance.

| Model No. | Water Quality | | | Nominal Tons ¹ | Motor HP | Weights ² | | Dimensions ³ | | | | | |
|---------------------|---------------|---------|------|---------------------------|----------|----------------------|-----------|-------------------------|-----------|----------------|-------|--------|-------|
| | Poor | Average | Good | | | Shipping | Operating | L | W | H ⁴ | A | B | C |
| 1S-PLC-0707-1001-G3 | ● | | | 123 | 10 | 4,525 | 11,300 | 8'-7/8" | 8'-3 1/4" | 14'-1" | 3'-0" | 10'-4" | 3'-0" |
| 1S-PLC-0707-1001-D3 | | ● | | 123 | 10 | | | | | | | | |
| 1S-PLC-0707-1001-F3 | | | ● | 130 | 10 | | | | | | | | |
| 1S-PLC-0707-1501-G3 | ● | | | 135 | 15 | | | | | | | | |
| 1S-PLC-0707-1501-D3 | | ● | | 137 | 15 | | | | | | | | |
| 1S-PLC-0707-1501-F3 | | | ● | 147 | 15 | | | | | | | | |

1. Based on 3 GPM per ton at 95°F-85°F-78°F, ASL.

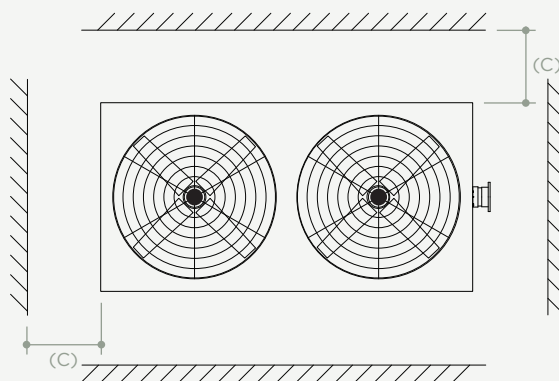
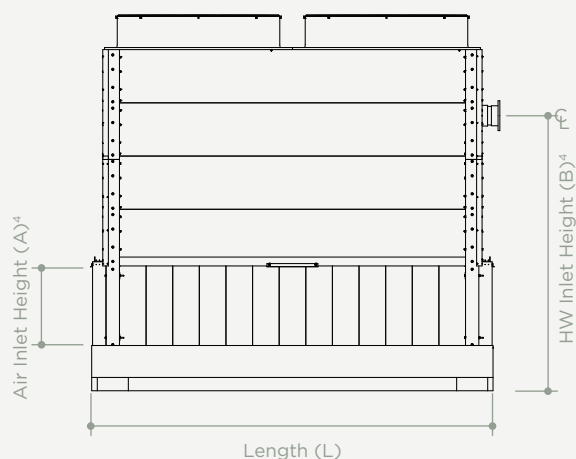
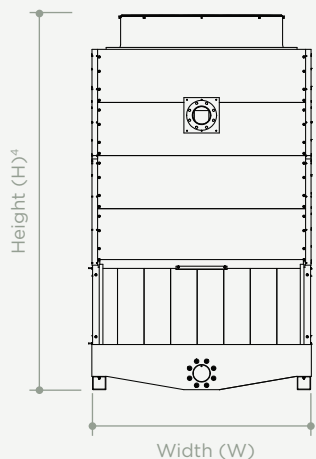
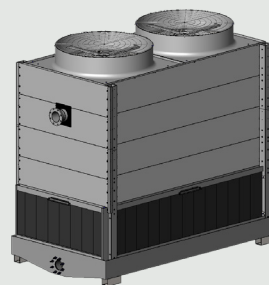
2. Weights and loads are in pounds.

3. All dimensions are nominal.

4. From bottom of basin support to top of fan stack.

The Phoenix PL is perfect for greywater and high cycles of concentration.

Phoenix PL 2-Fan Unit



Distance from Obstruction

This information is intended for guidelines and preliminary information only. Do not use for construction.
Adequate clearance for air supply must be maintained around the tower. Consult your CCS representative for assistance.

| Model No. | Water Quality | | | Nominal Tons ¹ | Motor HP | Weights ² | | Dimensions ³ | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---------------|---------|------|---------------------------|----------|----------------------|-----------|-------------------------|-----------|----------------|-------|--------|-------|----------|-----------|--------|-------|--------|-------|----------|-----------|--------|-------|--------|-------|-------|--------|----------|-----------|--------|-------|
| | Poor | Average | Good | | | Shipping | Operating | L | W | H ⁴ | A | B | C | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0714-2002-G3 | ● | | | 251 | 20 | 6,240 | 19,815 | 15'-7/8" | 8'-3 1/4" | 14'-1" | 3'-0" | 10'-4" | 3'-0" | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0714-2002-D3 | | ● | | 248 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0714-2002-F3 | | | ● | 262 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0714-2502-G3 | ● | | | 269 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0714-2502-D3 | | ● | | 267 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0714-2502-F3 | | | ● | 280 | 25 | 6,425 | 20,450 | | | | | | | 15'-7/8" | 8'-3 1/4" | 14'-1" | 3'-0" | 10'-4" | 3'-0" | | | | | | | | | | | | |
| 1S-PLC-0714-2002-G4 | ● | | | 279 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0714-2002-D4 | | ● | | 274 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0714-2002-F4 | | | ● | 282 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0714-2502-G4 | ● | | | 299 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0714-2502-D4 | | ● | | 294 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0714-2502-F4 | | | ● | 301 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0714-3002-G4 | ● | | | 316 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0714-3002-D4 | | ● | | 312 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0714-3002-F4 | | | ● | 317 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0714-2002-G5 | ● | | | 296 | 20 | 6,875 | 21,325 | | | | | | | | | | | | | 15'-7/8" | 8'-3 1/4" | 16'-1" | 3'-0" | 12'-4" | 3'-0" | | | | | | |
| 1S-PLC-0714-2002-D5 | | ● | | 288 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0714-2002-F5 | | | ● | 291 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0714-2502-G5 | ● | | | 317 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0714-2502-D5 | | ● | | 309 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0714-2502-F5 | | | ● | 310 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0714-3002-G5 | ● | | | 335 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0714-3002-D5 | | ● | | 328 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0714-3002-F5 | | | ● | 327 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0714-2002-G6 | ● | | | 306 | 20 | | | | | | | | | | | | | | | | | | | | | 7,020 | 21,910 | 15'-7/8" | 8'-3 1/4" | 16'-1" | 3'-0" |
| 1S-PLC-0714-2002-D6 | | ● | | 296 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0714-2002-F6 | | | ● | 295 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0714-2502-G6 | ● | | | 328 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0714-2502-D6 | | ● | | 318 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0714-2502-F6 | | | ● | 315 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0714-3002-G6 | ● | | | 347 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0714-3002-D6 | | ● | | 337 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0714-3002-F6 | | | ● | 332 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | |

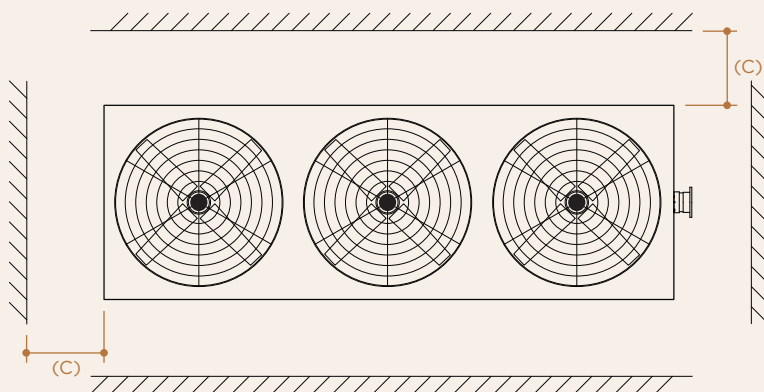
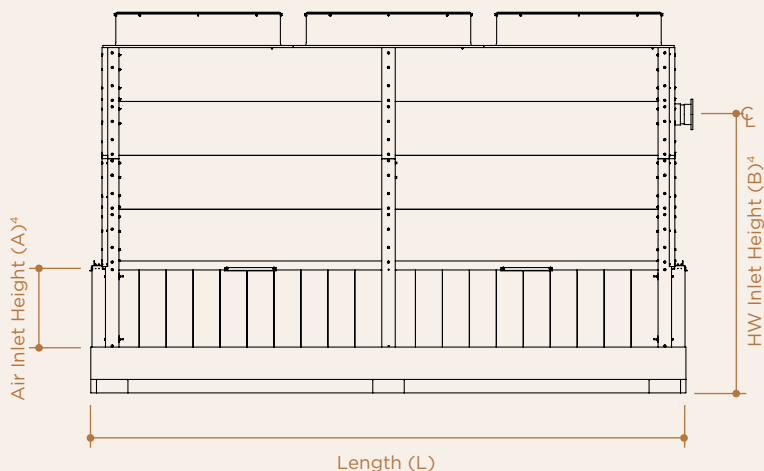
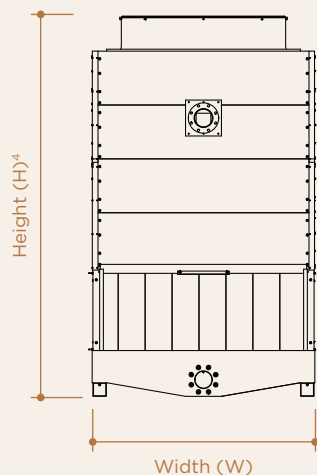
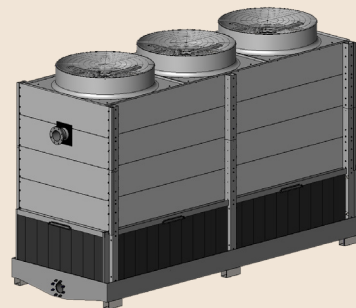
1. Based on 3 GPM per ton at 95°F-85°F-78°F, ASL.

2. Weights and loads are in pounds.

3. All dimensions are nominal.

4. From bottom of basin support to top of fan stack.

Phoenix PL 3-Fan Unit



Distance from Obstruction

This information is intended for guidelines and preliminary information only. Do not use for construction.
Adequate clearance for air supply must be maintained around the tower. Consult your CCS representative for assistance.

| Model No. | Water Quality | | | Nominal Tons ¹ | Motor HP | Weights | | Dimensions ³ | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---------------|---------|------|---------------------------|----------|----------|-----------|-------------------------|-----------|----------------|-------|--------|-------|----------|-----------|--------|-------|--------|-------|----------|-----------|--------|-------|--------|-------|----------|-----------|--------|-------|--------|-------|
| | Poor | Average | Good | | | Shipping | Operating | L | W | H ⁴ | A | B | C | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0721-3003-G3 | ● | | | 374 | 30 | 8,735 | 29,100 | 22'-7/8" | 8'-3 1/4" | 14'-1" | 3'-0" | 10'-4" | 3'-0" | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0721-3003-D3 | | ● | | 370 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0721-3003-F3 | | | ● | 391 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0721-3003-G4 | ● | | | 416 | 30 | 9,025 | 30,050 | | | | | | | 22'-7/8" | 8'-3 1/4" | 14'-1" | 3'-0" | 10'-4" | 3'-0" | | | | | | | | | | | | |
| 1S-PLC-0721-3003-D4 | | ● | | 408 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0721-3003-F4 | | | ● | 421 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0721-4503-G4 | ● | | | 472 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0721-4503-D4 | | ● | | 465 | 45 | 9,730 | 31,415 | | | | | | | | | | | | | 22'-7/8" | 8'-3 1/4" | 16'-1" | 3'-0" | 12'-4" | 3'-0" | | | | | | |
| 1S-PLC-0721-4503-F4 | | | ● | 474 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0721-3003-G5 | ● | | | 441 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0721-3003-D5 | | ● | | 431 | 30 | 10,030 | 32,375 | | | | | | | | | | | | | | | | | | | 22'-7/8" | 8'-3 1/4" | 16'-1" | 3'-0" | 12'-4" | 3'-0" |
| 1S-PLC-0721-3003-F5 | | | ● | 435 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0721-4503-G5 | ● | | | 501 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0721-4503-D5 | | ● | | 490 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0721-4503-F5 | | | ● | 490 | 45 | 10,030 | 32,375 | 22'-7/8" | 8'-3 1/4" | 16'-1" | 3'-0" | 12'-4" | 3'-0" | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0721-3003-G6 | ● | | | 457 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0721-3003-D6 | | ● | | 443 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0721-3003-F6 | | | ● | 441 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0721-4503-G6 | ● | | | 519 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1S-PLC-0721-4503-D6 | | ● | | 504 | 45 | 10,030 | 32,375 | | | | | | | 22'-7/8" | 8'-3 1/4" | 16'-1" | 3'-0" | 12'-4" | 3'-0" | | | | | | | | | | | | |
| 1S-PLC-0721-4503-F6 | | | ● | 496 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | | |

1. Based on 3 GPM per ton at 95°F-85°F-78°F, ASL.

2. Weights and loads are in pounds.

3. All dimensions are nominal.

4. From bottom of basin support to top of fan stack.

Water Quality—Why It Matters

Greywater? High TSS levels? No Problem. The Phoenix PL can handle all of them!

Whether your application involves water that is clean, or from the dirtiest industrial application, CCS uses the best available fill technology to balance the need for fouling resistance while ensuring optimal thermal performance.

| Water Quality | Poor | Average | Good |
|---|-------|---------|------|
| Allowed TSS with good microbial control (ppm) | <300 | <200 | <100 |
| Allowed TSS with poor microbial control (ppm) | <100 | <50 | <25 |
| Allowed oil and grease concentration (ppm) | <12.5 | <7.5 | <5 |

CCS Phoenix PL™ Fiberglass Counterflow Heavy-Duty Modular Cooling Tower

Composite Cooling Solutions (CCS) is a custom cooling tower solutions provider specializing in the design and build of both field-erected and modular fiberglass cooling towers. Our exclusive tower structure is unlike any other on the market — using custom-engineered components and a flexible, open-frame design to enable faster and safer project execution and lower costs over the life of the tower. From our founding leaders who pioneered the cooling tower industry to our experienced and responsive teams, you can rely on CCS to deliver a lasting solution for your cooling needs.

We do things differently and it makes all the difference for you.™



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Front cover: The CCS Phoenix PL heavy-duty modular cooling tower.



The Phoenix PL can be configured to be FM Approved
per Approvals Class 4930.

Composite Cooling Solutions' cooling towers (or parts thereof) are covered and protected by one or more of the following United States Patents (and other pending U.S. patent applications): U.S. Patent No. 7,257,734, U.S. Patent No. 7,607,646, U.S. Patent No. 7,997,562, U.S. Patent No. 8,376,323 and U.S. Patent No. 8,602,397



ISO 9001:2015

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