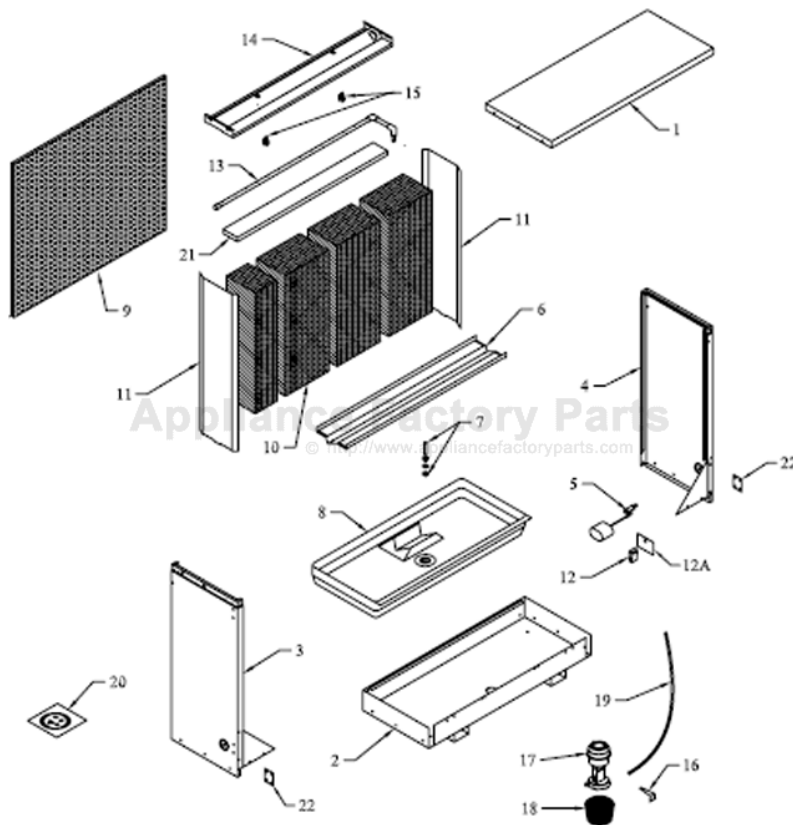


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MASTERCool SAD10012W Owner's Manual

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----- Manual continues below -----

SPECIFICATIONS & SUBMITTAL DATA

FEATURES:

- Heavy gauge galvanized steel cabinet
- Electrostatically applied Polyester resin powder paint finish
- Thermoplastic water reservoir
- Long life media, efficient and self cleaning
- Greater air flow
- Low maintenance
- Made in the U.S.A.



Project _____

Location _____

Architect _____

Engineer _____

Contractor _____

Submitted By _____ Date _____



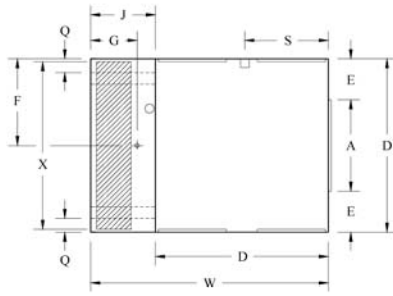
MODELS

SAS/SAD 10012
SAS/SAD 15012

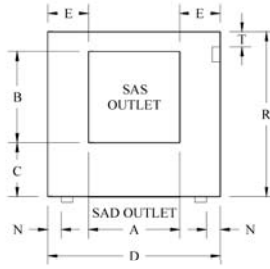
| Ref. No. | Cooler Model No. | Qty. | CFM | Static Pressure | Motor | HP | Speed | Volts | Phase | Pulley-Belt Kit No. | Pump | Qty. | Volts |
|----------|------------------|------|-----|-----------------|-------|----|-------|-------|-------|---------------------|------|------|-------|
| 1 | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | |

Notes

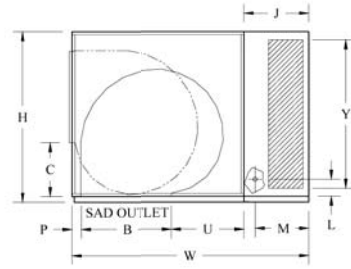
CHAMPION COOLER
 5800 Murray, Little Rock, AR 72209
 1-800-643-8341
 info@championcooler.com



TOP VIEW



FRONT VIEW



SIDE VIEW

DIMENSIONAL DATA*

| BLOWER MODEL NUMBER | WET MUDULE NUMBER | CABINET | | | DUCT OPENING | | DUCT LOCATION | | | DRAIN LOCATION | | | WET MODULE | | MEDIA DIMENSION | | WATER SERVICE | | ELECTRIC SERVICE | | SKID LOCATIONS | | |
|---------------------|-------------------|---------|--------|--------|--------------|--------|---------------|----------|---------|----------------|--------|--------|------------|--------|-----------------|-------|---------------|--------|------------------|-------|----------------|----|--|
| | | H | W | D | A | B | C (SAS) | U (SAD) | P (SAD) | E | F | G | J | X | Y | L | M | S | T | N | Q | R | |
| SAS/SAD 10012B | 10012W | 44 | 67 3/8 | 45 | 21 3/4 | 21 3/4 | 13 19/32 | 21 11/32 | 1 29/32 | 11 5/8 | 22 1/2 | 16 1/2 | 22 1/2 | 44 3/4 | 36 5/8 | 5 7/8 | 18 5/8 | 21 1/2 | 5 5/32 | 4 3/4 | 4 3/4 | 42 | |
| SAS/SAD 15012B | 15012W | 54 | 70 5/8 | 48 1/4 | 26 7/8 | 26 7/8 | 16 13/16 | 19 5/32 | 2 7/32 | 10 11/16 | 24 1/8 | 16 1/2 | 22 1/2 | 48 | 46 3/8 | 5 7/8 | 18 5/8 | 23 1/8 | 5 5/32 | 4 3/4 | 4 3/4 | 52 | |

* All Measurements in inches.

| SAS/SAD 10012 | | | | PERFORMANCE Certified Air Delivery At .1" Increments Of External Static Pressure (Inches Static Pressure Water Gauge) | | | | | | | | | | | | | | | | | | | | | |
|---------------|------------|----------------|----------------|---|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| MAX B.H.P. | OPER. WGT. | SAD MODEL BELT | SAS MODEL BELT | 0" | | 0.1" | | 0.2" | | 0.3" | | 0.4" | | 0.5" | | 0.6" | | 0.7" | | 0.8" | | 0.9" | | 1.0" | |
| | | | | CFM | RPM | CFM | RPM | CFM | RPM | CFM | RPM | CFM | RPM | CFM | RPM | CFM | RPM | CFM | RPM | CFM | RPM | CFM | RPM | CFM | RPM |
| 3/4 | 589 | B77 | B83 | 5371 | 362 | 5064 | 374 | 4794 | 386 | 4536 | 397 | 4269 | 410 | 3985 | 423 | 3667 | 439 | 3318 | 458 | 2952 | 481 | 2591 | 507 | 2261 | 534 |
| 1 | 595 | B77 | B83 | 5911 | 359 | 5627 | 410 | 5375 | 420 | 5142 | 431 | 4907 | 441 | 4663 | 453 | 4399 | 465 | 4115 | 479 | 3809 | 495 | 3480 | 514 | 3145 | 536 |
| 1 1/2 | 605 | B77 | B83 | 6767 | 457 | 6513 | 466 | 6286 | 475 | 6076 | 484 | 5872 | 494 | 5666 | 503 | 5456 | 513 | 5238 | 523 | 5008 | 534 | 4755 | 546 | 4497 | 560 |

| SAS/SAD 15012 | | | | PERFORMANCE Certified Air Delivery At .1" Increments Of External Static Pressure (Inches Static Pressure Water Gauge) | | | | | | | | | | | | | | | | | | | | | |
|---------------|------------|----------------|----------------|---|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| MAX B.H.P. | OPER. WGT. | SAD MODEL BELT | SAS MODEL BELT | 0" | | 0.1" | | 0.2" | | 0.3" | | 0.4" | | 0.5" | | 0.6" | | 0.7" | | 0.8" | | 0.9" | | 1.0" | |
| | | | | CFM | RPM | CFM | RPM | CFM | RPM | CFM | RPM | CFM | RPM | CFM | RPM | CFM | RPM | CFM | RPM | CFM | RPM | CFM | RPM | CFM | RPM |
| 3/4 | 722 | B90 | B96 | 6997 | 267 | 6539 | 278 | 6087 | 289 | 5603 | 301 | 5051 | 315 | 4415 | 332 | 3717 | 353 | 3058 | 376 | 2497 | 398 | 2013 | 419 | 1571 | 436 |
| 1 | 725 | B90 | B96 | 7702 | 294 | 7286 | 303 | 6876 | 314 | 6450 | 324 | 5994 | 336 | 5477 | 349 | 4893 | 364 | 4260 | 383 | 3637 | 404 | 3085 | 425 | 2609 | 444 |
| 1 1/2 | 727 | B90 | B96 | 8817 | 336 | 8455 | 345 | 8091 | 353 | 7734 | 363 | 7359 | 372 | 6961 | 382 | 6525 | 393 | 6050 | 405 | 5527 | 419 | 4976 | 435 | 4425 | 453 |
| 2 | 741 | B90 | B96 | N/A | N/A | 9375 | 378 | 9044 | 386 | 8719 | 394 | 8389 | 402 | 8043 | 411 | 7683 | 420 | 7293 | 430 | 6869 | 440 | 6416 | 452 | 5932 | 465 |
| 3 | 752 | B92 | B100 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 9377 | 466 | 9070 | 474 | 8751 | 482 | 8407 | 490 | 8046 | 499 |

Performance shown is for installation type B - Free inlet, Ducted outlet. Power rating (BHP) does not include drive losses.

PULLEY-BELT KIT SELECTION

| H.P. | BORE | SAD 10012 PULLEY-BELT KIT NO. | SAS 10012 PULLEY-BELT KIT NO. | SAD 15012 PULLEY-BELT KIT NO. | SAS 15012 PULLEY-BELT KIT NO. |
|-------|-------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| 3/4 | 5/8 | 3DI-90 (Static < 0.6) | 3DI-110 (Static < 0.6) | 3DI-130 (Static < 0.5) | 3DI-165 (Static < 0.6) |
| 3/4 | 5/8 | 3DI-95 (Static > 0.6) | 3DI-115 (Static > 0.6) | 3DI-135 (Static > 0.5) | 3DI-170 (Static > 0.6) |
| 1 | 5/8 | 3DI-90 (Static < 0.4) | 3DI-110 (Static < 0.4) | 3DI-130 (Static < 0.4) | 3DI-165 (Static < 0.4) |
| 1 | 5/8 | 3DI-95 (Static > 0.4) | 3DI-115 (Static > 0.4) | 3DI-135 (Static > 0.4) | 3DI-170 (Static > 0.4) |
| 1 | 7/8 | 3DI-100 (Static < 0.4) | 3DI-120 (Static < 0.4) | 3DI-140 (Static < 0.4) | 3DI-175 (Static < 0.4) |
| 1 | 7/8 | 3DI-105 (Static > 0.4) | 3DI-125 (Static > 0.4) | 3DI-145 (Static > 0.4) | 3DI-180 (Static > 0.4) |
| 1 1/2 | 5/8 | 3DI-95 | 3DI-115 | 3DI-135 (Static < 0.9) | 3DI-170 (Static < 0.9) |
| 1 1/2 | 5/8 | - | - | 3DI-156 (Static > 0.7) | 3DI-186 (Static > 0.7) |
| 1 1/2 | 7/8 | 3DI-105 | 3DI-125 | 3DI-145 (Static < 0.9) | 3DI-180 (Static < 0.9) |
| 1 1/2 | 7/8 | - | - | 3DI-155 (Static > 0.7) | 3DI-185 (Static > 0.7) |
| 2 | 5/8 | - | - | 3DI-135 (Static < 0.8) | 3DI-170 (Static < 0.8) |
| 2 | 5/8 | - | - | 3DI-156 (Static > 0.5) | 3DI-186 (Static > 0.5) |
| 2 | 7/8 | - | - | 3DI-145 (Static < 0.8) | 3DI-180 (Static < 0.8) |
| 2 | 7/8 | - | - | 3DI-155 (Static > 0.5) | 3DI-185 (Static > 0.5) |
| 3 | 1 1/8 | - | - | 3DI-161 | 3DI-190 |

MOTOR SPECIFICATIONS

| BLOWER MOTORS | | VOLTS | PHASE | MOTOR AMPS* | SHAFT DIA. | MOTOR WGT(LB) | MOTOR PART NO. | BLOWER MOTORS | | VOLTS | PHASE | MOTOR AMPS* | SHAFT DIA. | MOTOR WGT(LB) | MOTOR PART NO. |
|---------------|-------|-------------|-------|--------------|------------|---------------|----------------|---------------|-------|-------------|-------|--------------|------------|---------------|----------------|
| H.P. | SPEED | | | | | | | H.P. | SPEED | | | | | | |
| 3/4 | 1 | 115/208-230 | 1 | 13.8/7.6-6.9 | 5/8 | 24 | 110455 | 2 | 1 | 115/208-230 | 1 | 24/13.2-12 | 5/8 | 50 | 110460-1 |
| 3/4 | 2 | 230 | 1 | 6.9 | 5/8 | 29 | 110456 | 2 | 1 | 208-230/460 | 3 | 7.5-6.8/3.4 | 7/8 | 44 | 110464-9 |
| 3/4 | 1 | 208-230/460 | 3 | 3.5-3.2/1.6 | 5/8 | 20 | 110461 | 3 | 1 | 208-230/460 | 3 | 10.6-9.6/4.8 | 1 1/8 | 83 | 110465-9 |
| 1 | 1 | 115/230 | 1 | 16/8 | 5/8 | 28 | 110457 | | | | | | | | |
| 1 | 2 | 230 | 1 | 8 | 5/8 | 29 | 110458 | | | | | | | | |
| 1 | 1 | 208-230/460 | 3 | 4.6-4.2/2.1 | 7/8 | 34 | 110462-9 | | | | | | | | |
| 1 1/2 | 1 | 115/208-230 | 1 | 20/11-10 | 5/8 | 41 | 110459-1 | | | | | | | | |
| 1 1/2 | 1 | 208-230/460 | 3 | 6.6-6/3 | 7/8 | 40 | 110463-9 | | | | | | | | |

* Amperage shown is from National Electrical Code. Use amperage shown on motor nameplate to determine motor protector.

Pumps - 1 Required.

| PUMP PART NO. | VOLTS | AMPS | WATTS | GPM (5FT. HEAD) |
|---------------|-------|------|-------|-----------------|
| 110467 | 115 | 1.0 | 73 | 4.6 |
| 110468 | 230 | 0.58 | 77 | 4.6 |