

# SPECIFICATIONS & SUBMITTAL DATA

## FEATURES:

- Heavy gauge galvanized steel cabinet
- Electrostatically applied polyester resin powder paint finish
- Drawn pans on 75/85SD & 95SD units
- Sealed pans on 10/12SD & 14/21SD units
- Chem treated adjustable water troughs in pad frames
- Greater air flow
- Built in the U.S.A.
- Standard models are UL Listed for use in ducted application to a single room, area or space.  
(UL Listed units intended for multi-room, ducted installations are available, just add the suffix "UL" to the end of the model number when ordering.)

## MODELS

10/12 SD  
14/21 SD



## MODELS

75/85 SD  
95 SD

|              |      |
|--------------|------|
| Project      |      |
| Location     |      |
| Architect    |      |
| Engineer     |      |
| Contractor   |      |
| Submitted By | Date |

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

## Notes

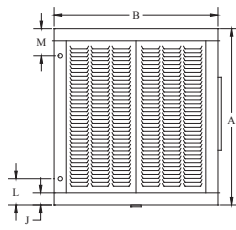
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CHAMPION COOLER /  
ESSICK AIR PRODUCTS

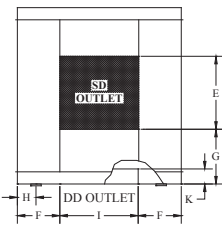
5800 Murray, Little Rock, AR 72209  
1-800-643-8341  
info@essickair.com

# 10/12 & 14/21 UNITS

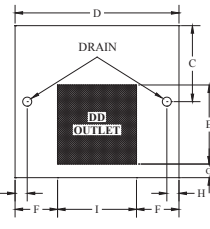
# 75/85 & 95 UNITS



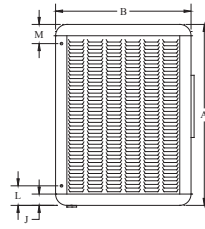
SIDE VIEW



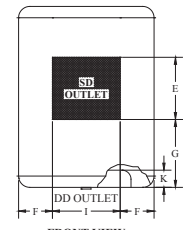
FRONT VIEW



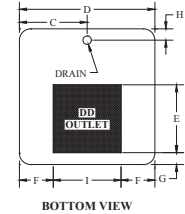
BOTTOM VIEW



SIDE VIEW



FRONT VIEW



BOTTOM VIEW

## DIMENSIONAL DATA\*

| DIMENSIONAL DATA* |         |        |        |        |         |        |          |         |                |        |               |   |   |  |
|-------------------|---------|--------|--------|--------|---------|--------|----------|---------|----------------|--------|---------------|---|---|--|
| MODEL NO.         | CABINET |        |        | ELECT. | DUCT    |        |          |         | DRAIN LOCATION |        | WATER SERVICE |   |   |  |
|                   |         |        |        |        | OPENING |        | LOCATION |         |                |        |               |   |   |  |
|                   | A       | B      | D      | M      | E       | I      | G        | F       | H              | C      | L             | J | K |  |
| 75/85 SD & 95 SD  | 53 5/8  | 41-1/4 | 41-1/4 | 4-1/2  | 21-3/4  | 21-3/4 | 17       | 9-3/4   | 8-1/2          | 16-1/2 | 5-7/8         | 4 |   |  |
| 10/12 SD          | 52 1/8  | 50     | 50     | 6-1/16 | 26-7/8  | 26-7/8 | 20-1/2   | 11-9/16 | 4              | 25     | 7-9/16        | 4 |   |  |
| 14/21 SD          | 59 3/4  | 62     | 62     | 6-1/16 | 31-3/4  | 31-3/4 | 22-1/2   | 15-1/8  | 4              | 31     | 7-9/16        | 4 |   |  |

\* All Measurements in inches.

| SIDE DISCHARGE |        |            | PERFORMANCE <i>Certified Air Delivery At .1" Increments Of External Static Pressure (Inches Static Pressure Water Gauge)</i> |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |
|----------------|--------|------------|------------------------------------------------------------------------------------------------------------------------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
| MODEL NO.      | B.H.P. | OPER. WGT. | 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 |
| 75/85 SD       | 3/4    | 450        | 5905                                                                                                                         | 317 | 5670  | 330 | 5405  | 342 | 5110  | 355 | 4795  | 369 | 4456  | 385 | 4089  | 403 | 3705  | 425 | 3302  | 451 |       |     |       |     |
|                | 1      | 456        | 6498                                                                                                                         | 349 | 6289  | 360 | 6054  | 372 | 5799  | 383 | 5523  | 395 | 5233  | 408 | 4922  | 422 | 4592  | 439 | 4245  | 458 | 3882  | 480 |       |     |
| 95 SD          | 1 1/2  | 466        | 6868                                                                                                                         | 420 | 6724  | 424 | 6572  | 429 | 6411  | 436 | 6246  | 443 | 6071  | 452 | 5885  | 463 | 5683  | 474 | 5464  | 487 | 5227  | 501 | 4965  | 516 |
|                | 2      | 470        | 7558                                                                                                                         | 462 | 7429  | 466 | 7291  | 470 | 7148  | 475 | 7002  | 482 | 6850  | 489 | 6688  | 497 | 6522  | 507 | 6345  | 517 | 6156  | 528 | 5952  | 540 |
| 10/12 SD       | 1      | 719        | 8567                                                                                                                         | 261 | 8052  | 275 | 7595  | 287 | 7140  | 299 | 6659  | 313 | 6132  | 328 | 5557  | 346 |       |     |       |     |       |     |       |     |
|                | 1 1/2  | 729        | 9807                                                                                                                         | 299 | 9347  | 311 | 8939  | 322 | 8544  | 332 | 8144  | 343 | 7729  | 354 | 7282  | 367 | 6805  | 382 | 6274  | 399 |       |     |       |     |
|                | 2      | 733        | 10794                                                                                                                        | 329 | 10374 | 340 | 9994  | 350 | 9630  | 360 | 9269  | 369 | 8908  | 379 | 8522  | 390 | 8130  | 401 | 7704  | 414 | 7250  | 429 | 6753  | 445 |
| 14/21 SD       | 1 1/2  | 1040       | 12386                                                                                                                        | 226 | 11713 | 237 | 11083 | 247 | 10451 | 257 | 9785  | 267 | 9067  | 279 | 8284  | 294 | 7427  | 311 |       |     |       |     |       |     |
|                | 2      | 1044       | 13633                                                                                                                        | 249 | 13016 | 259 | 12439 | 268 | 11868 | 277 | 11281 | 286 | 10674 | 296 | 10025 | 307 | 9313  | 320 | 8557  | 334 | 7758  | 351 |       |     |
|                | 3      | 1083       | 15606                                                                                                                        | 285 | 15063 | 294 | 14551 | 302 | 14050 | 310 | 13553 | 318 | 13042 | 325 | 12522 | 334 | 11969 | 343 | 11390 | 353 | 10777 | 364 | 10133 | 376 |
|                | 5      | 1087       | 18502                                                                                                                        | 338 | 18044 | 346 | 17598 | 353 | 17167 | 360 | 16749 | 366 | 16334 | 372 | 15906 | 379 | 15478 | 386 | 15035 | 393 | 14581 | 400 | 14115 | 408 |

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

## SHEAVE SELECTION

| H.P.  | BORE  | 75/85 SD                  | 95 SD                     | 10/12 SD                  | 14/21 SD                |
|-------|-------|---------------------------|---------------------------|---------------------------|-------------------------|
| 3/4   | 1/2   | 110279-002 (Static < 0.6) | -                         | -                         | -                       |
| 3/4   | 1/2   | 110279-004 (Static > 0.3) | -                         | -                         | -                       |
| 3/4   | 5/8   | 110308 (Static < 0.6)     | -                         | -                         | -                       |
| 3/4   | 5/8   | 110279-003 (Static > 0.3) | -                         | -                         | -                       |
| 1     | 5/8   | 110279-003 (Static < 0.8) | -                         | 110308                    | -                       |
| 1     | 5/8   | 110306-1 (Static > 0.6)   | -                         | -                         | -                       |
| 1     | 7/8   | 110302 (Static < 0.8)     | -                         | 110309                    | -                       |
| 1     | 7/8   | 110299 (Static > 0.6)     | -                         | -                         | -                       |
| 1 1/2 | 5/8   | -                         | 110279-003 (Static < 0.6) | 110279-003 (Static < 0.5) | 110286                  |
| 1 1/2 | 5/8   | -                         | 110306-1 (Static > 0.2)   | 110306-1 (Static > 0.3)   | -                       |
| 1 1/2 | 7/8   | -                         | 110302 (Static < 0.6)     | 110302 (Static < 0.5)     | 110290                  |
| 1 1/2 | 7/8   | -                         | 110299 (Static > 0.2)     | 110299 (Static > 0.3)     | -                       |
| 2     | 5/8   | -                         | 110306-1                  | 110306-1 (Static < 0.8)   | 110286 (Static > 0.6)   |
| 2     | 5/8   | -                         | -                         | -                         | 110285 (Static < 0.3)   |
| 2     | 7/8   | -                         | 110299                    | 110299 (Static < 0.8)     | 110290 (Static > 0.6)   |
| 2     | 7/8   | -                         | -                         | 110307-1 (Static > 0.6)   | 110289 (Static < 0.3)   |
| 3     | 1 1/8 | -                         | -                         | -                         | 110291                  |
| 5     | 1 1/8 | -                         | -                         | -                         | 110291 (Static < 0.4)   |
| 5     | 1 1/8 | -                         | -                         | -                         | 110304-1 (Static > 0.1) |

## 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     | ** 230/460 | 3     | 7.5-6.8/3.4  | 7/8        | 44            | 110464-9       |
| 3/4           | 2     | 230         | 1     | 6.9          | 1/2        | 21            | 110480         | 3             | 1     | ** 230/460 | 3     | 10.6-9.6/4.8 | 1 1/8      | 83            | 110465-9       |
| 3/4           | 1     | 208-230/460 | 3     | 3.5-3.2/1.6  | 5/8        | 20            | 110461         | 5             | 1     | ** 230/460 | 3     | 15.2/7.6     | 1 1/8      | 87            | 110466-9       |
| 1             | 1     | 115/230     | 1     | 16/8         | 5/8        | 28            | 110457         |               |       |            |       |              |            |               |                |
| 1             | 2     | 230         | 1     | 8            | 5/8        | 29            | 110458         |               |       |            |       |              |            |               |                |
| 1             | 1     | ** 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     | ** 230/460  | 3     | 6.6-6/3      | 7/8        | 40            | 110463-9       |               |       |            |       |              |            |               |                |
| 2             | 1     | 115/208-230 | 1     | 24/13.2-12   | 5/8        | 50            | 110460-1       |               |       |            |       |              |            |               |                |

\*Amperage shown is from National Electrical Code. Use amperage shown on motor nameplate to determine motor protector. \*\*230/460 V, 3 phase — usable at 208 V per motor nameplate

† Pump for 75/85 & 95 units ORDER SEPARATELY FOR 10/12 AND 14/21 UNITS:  
‡ Pump for 10/12 & 14/21 units FL-3/8 FLOAT & 310587 BLEED-OFF KIT

All switches, motors, starters, transformers, fuses, junction boxes, receptacles, receptacle boxes, cover plates and conductors shall be supplied by the installer and must comply with local and national electric codes. A receptacle for a NEMA 5-15P plug is required for 120V recirculating pump and a receptacle for a NEMA 6-15P plug for 230V pump.