

## RECOVERY

When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.

When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct number of cylinders for holding the total system charge is available. All cylinders to be used are designated for the recovered refrigerant and labeled for that refrigerant (i.e. special cylinders for the recovery of refrigerant). Cylinders shall be complete with pressure-relief valve and associated shut-off valves in good working order. Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.

The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of the flammable refrigerant. If in doubt, the manufacturer should be consulted. In addition, a set of calibrated weighing scales shall be available and in good working order. Hoses shall be complete with leak-free disconnect couplings and in good condition.

The recovered refrigerant shall be processed according to local legislation in the correct recovery cylinder, and the relevant waste transfer note arranged. Do not mix refrigerants in recovery units and especially not in cylinders.

If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant. The compressor body shall not be heated by an open flame or other ignition sources to accelerate this process. When oil is drained from a system, it shall be carried out safely.

## CHARGING PROCEDURES

In addition to conventional charging procedures, the following requirements shall be followed.

- Ensure that contamination of different refrigerants does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimize the amount of refrigerant contained in them.
- Cylinders shall be kept in an appropriate position according to the instructions.
- Ensure that the REFRIGERATING SYSTEM is grounded prior to charging the system with refrigerant.
- Label the system when charging is complete (if not already).
- Extreme care shall be taken not to overfill the REFRIGERATING SYSTEM.

**NOTE: "GROUNDING" IS DEFINED AS ACHIEVING AN EARTH GROUND BY CONNECTING THE EQUIPMENT'S SUPPLIED GROUNDING LUG TO THE EARTH. THIS SHOULD BE VERIFIED BY A CERTIFIED TECHNICIAN.**

Prior to recharging the system, it shall be pressure-tested with the appropriate purging gas. The system shall be leak-tested on completion of charging but prior to commissioning. A follow up leak test shall be carried out prior to leaving the site.

**IMPORTANT: REFER TO THE STANDING PRESSURE TEST / LEAK DETECTION METHOD REFERENCED LATER IN THIS MANUAL.**

## THE FOLLOWING INSTRUCTIONS ARE MANDATORY FOR A2L SYSTEMS AND SUPERSEDE OTHER INSTRUCTIONS

### WARNING

ONLY BRAZING TECHNIQUES AND APPROVED MECHANICAL JOINTS SHOULD BE USED TO CONNECT REFRIGERANT TUBING CONNECTIONS. NON-APPROVED MECHANICAL CONNECTORS AND OTHER METHODS ARE NOT PERMITTED IN THIS SYSTEM CONTAINING A2L REFRIGERANT. APPROVED MECHANICAL JOINTS WILL BE DETAILED IN THE PRODUCT'S SPECIFICATION SHEETS.

## STANDING PRESSURE TEST/ LEAK DETECTION METHOD

Using dry nitrogen or dry helium, pressurize the system to 450 PSIG. Allow the pressure to stabilize and hold for 15 minutes (minimum). The system is considered leak-free if the pressure does not drop below 450 PSIG. If, after 15 minutes, the pressure drops below 450 PSIG, it implies a leak in the system. Proceed with identifying and sealing the leak and repeating the Standing Pressure Test. Leak test the system using dry nitrogen or dry helium and soapy water to identify leaks. **No refrigerant shall be used for pressure testing to detect leaks.** Proceed to system evacuation using the Deep Vacuum Method.

## DEEP VACUUM METHOD

The Deep Vacuum Method requires a vacuum pump rated for 500 microns or less. This method effectively and efficiently ensures the system is free of non-condensable air and moisture. The Triple Evacuation Method is detailed in the Service Manual for this product model as an alternative. To expedite the evacuation procedure, it is recommended that the Schrader Cores be removed from the service valves using a core-removal tool.

1. Connect the vacuum pump, micron gauge, and vacuum-rated hoses to both service valves. Evacuation must use both service valves to eliminate system mechanical seals.
2. Evacuate the system to less than 500 microns.
3. Isolate the pump from the system and hold the vacuum for 10 minutes (minimum). Typically, pressure will rise slowly during this period. If the pressure rises to less than 1000 microns and remains steady, the system is considered leak-free; proceed to system charging and startup.
4. If pressure rises above 1000 microns but holds steady below 2000 microns, non-condensable air or moisture may remain, or a small leak may be present. Return to step 2: If the same result is achieved, check for leaks and repair. Repeat the evacuation procedure.
5. If pressure rises above 2000 microns, a leak is present. Check for leaks and repair them. Then, repeat the evacuation procedure.

## ACCESSORY INSTALLATION

### WARNING

ALL ACCESSORIES THAT MAY BECOME A POTENTIAL IGNITION SOURCE IF INSTALLED, SUCH AS ELECTRONIC AIR CLEANERS, MUST ONLY BE POWERED THROUGH OUR ACCESSORY CONTROL BOARD KIT. IF AN ELECTRONIC AIR CLEANER IS ALREADY INSTALLED IN THE DUCT WORK AND NOT CONNECTED TO THE ACCESSORY CONTROL BOARD, IT WILL HAVE TO BE DISABLED OR REMOVED. ENSURE THAT ANY ADDITIONAL WIRING FROM THE INDOOR UNIT TO THE ACCESSORY CONTROL BOARD IS ROUTED AND PROTECTED FROM DAMAGE AND WEAR, AVOIDING ANY JOINTS THAT MAY NEED BRAZED OR DISCONNECTED FOR SERVICE. REFER TO THE PRODUCT SPECIFICATION SHEET FOR THE ACCESSORY CONTROL BOARD KIT PARTNUMBER

## ALTITUDE ADJUSTMENT FACTOR TO CALCULATE MINIMUM ROOM AREA

The Indoor equipment mitigation requirements are calculated at sea level. For higher altitudes adjust the minimum room area specified on or near the Serial Plate by the corresponding altitude adjustment factor shown below. This table is provided as a reference.

Adjusted room area ( $A_{\min \text{ adj}}$ ) is the product of the minimum room area specified in the serial plate and the adjustment factor AF, as shown in below formula

$$A_{\min \text{ adj}} = A_{\min} (\text{serial plate}) * AF$$

| Height in meters | Height in feet | Altitude Adjustment Factor (AF) |
|------------------|----------------|---------------------------------|
| At sea level     | At sea level   | 1.00                            |
| 1~200            | 1~660          | 1.02                            |
| 200~400          | 660~1320       | 1.03                            |
| 400~600          | 1320~1970      | 1.05                            |
| 600~800          | 1970~2630      | 1.07                            |
| 800~1000         | 2630~3290      | 1.09                            |
| 1000~1200        | 3290~3940      | 1.11                            |
| 1200~1400        | 3940~4600      | 1.13                            |
| 1400~1600        | 4600~5250      | 1.15                            |
| 1600~1800        | 5250~5910      | 1.17                            |
| 1800~2000        | 5910~6570      | 1.19                            |
| 2000~2200        | 6570~7220      | 1.21                            |
| 2200~2400        | 7220~7880      | 1.24                            |
| 2400~2600        | 7880~8540      | 1.26                            |
| 2600~2800        | 8540~9190      | 1.29                            |
| 2800~3000        | 9190~9850      | 1.31                            |
| 3000~3200        | 9850~10500     | 1.34                            |

## FINAL SYSTEM CHECKS

1. Check to see if all supply and return air grilles are adjusted and the air distribution system is balanced for the best compromise between heating and cooling.
2. Check for air leaks in the ductwork. See Sections on Air Flow Adjustments.
3. Make sure the unit is free of “rattles”, and the tubing in the unit is free from excessive vibration. Also make sure tubes or lines are not rubbing against each other or sheet metal surfaces or edges. If so, correct the trouble.
4. Set the thermostat at the appropriate setting for cooling and heating or automatic changeover for normal use.
5. Be sure the Owner is instructed on the unit operation, filter, servicing, correct thermostat operation, etc.

## MAINTENANCE



### WARNING

**ELECTRICAL SHOCK, FIRE OR EXPLOSION HAZARD**  
FAILURE TO FOLLOW SAFETY WARNINGS EXACTLY COULD  
RESULT IN DANGEROUS OPERATION, SERIOUS INJURY, DEATH OR  
PROPERTY DAMAGE.

**IMPROPER SERVICING COULD RESULT IN DANGEROUS  
OPERATION, SERIOUS INJURY, DEATH OR PROPERTY DAMAGE.**

- **BEFORE SERVICING, DISCONNECT ALL ELECTRICAL POWER TO FURNACE.**
- **WHEN SERVICING CONTROLS, LABEL ALL WIRES PRIOR TO DISCONNECTING. RECONNECT WIRES CORRECTLY.**
- **VERIFY PROPER OPERATION AFTER SERVICING.**



### WARNING

#### HIGH VOLTAGE

**DISCONNECT ALL POWER BEFORE SERVICING OR  
INSTALLING THIS UNIT. MULTIPLE POWER SOURCES  
MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE  
PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.**



### WARNING

**TO PREVENT PERSONAL INJURY OR DEATH DUE TO IMPROPER  
INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE,  
REFER TO THIS MANUAL. FOR ADDITIONAL ASSISTANCE OR  
INFORMATION, CONSULT A QUALIFIED INSTALLER, SERVICER AGENCY OR  
THE GAS SUPPLIER.**



### CAUTION

**SHEET METAL PARTS, SCREWS, CLIPS AND SIMILAR ITEMS INHERENTLY  
HAVE SHARP EDGES, AND IT IS NECESSARY THAT THE INSTALLER AND  
SERVICE PERSONNEL EXERCISE CAUTION.**

Preventive maintenance is the best way to avoid unnecessary expense and inconvenience. Have this system inspected at regular intervals by qualified service personnel, at least twice a year. Routine maintenance should cover the following items:

1. Tighten all set screws, and wire connections.
2. Clean evaporator and condenser coils mechanically or with cold water, if necessary. Usually any fouling is only matted on the entering air face of the coil and can be removed by brushing.
3. Replace filters as needed (see below).
4. Check for blockage of condensate drain.
5. Check power and control voltages.
6. Check running amperage.
7. Check operating temperatures and pressures.
8. Check and adjust temperature and pressure controls.
9. Check and adjust damper linkages.
10. Check operation of all safety controls.
11. Check condenser fans and tighten set screws.

## FILTERS



### CAUTION

**TO PREVENT PROPERTY DAMAGE DUE TO FIRE AND LOSS OF EQUIPMENT  
EFFICIENCY OR EQUIPMENT DAMAGE DUE TO DUST AND LINT BUILD UP  
ON INTERNAL PARTS, NEVER OPERATE UNIT WITHOUT AN AIR FILTER  
INSTALLED IN THE RETURN AIR SYSTEM.**

Every application may require a different frequency of replacement of dirty filters. Filters must be replaced at least every three (3) months during operating seasons.

Dirty filters are the most common cause of inadequate heating or cooling performance. Filter inspection should be made at least every two months; more often if necessary because of local conditions and usage.

Dirty throwaway filters should be discarded and replaced with a new, clean filter.

Disposable return air filters are supplied with this unit. See the unit Specification Sheet or Technical Manual for the correct size and part number. To remove the filters, remove the filter access panel on return side of the unit.

## CABINET FINISH MAINTENANCE

Use a fine grade automotive wax on the cabinet finish to maintain the finishes original high luster. This is especially important in installations with extended periods of direct sunlight.

### **CLEAN INDOOR COIL (QUALIFIED SERVICER ONLY)**

Before cleaning the indoor coil, A2L sensor must be removed from the unit to avoid damage and contamination. Air filters should also be removed before performing maintenance. The coil with the filtered air flowing over it should be inspected and cleaned as frequently as necessary to keep the finned areas free of debris. Any air blowing or water rinsing should be performed from inside-out (opposite operating airflow direction) to prevent damage to the tube, fin coil and any other components.

### **CLEAN OUTSIDE COIL (QUALIFIED SERVICER ONLY)**

The coil with the outside air flowing over it should be inspected annually and cleaned as frequently as necessary to keep the finned areas free of lint, hair and debris.

### **LUBRICATION**

The fan shaft bearings , the supply fan motors, the condenser fan motors and compressors are permanently lubricated.

### **FUNCTIONAL PARTS**

Refer to the unit Parts Catalog for a list of functional parts. Parts are available from your distributor.

### **SERVICING MEASURES FOR THE REFRIGERANT DETECTION SYSTEM:**

Before servicing, identify the mode of operation of the system by reading the LED flashing pattern on the PCB within the control box and matching the LED flashing pattern with mode of operation in the REFRIGERANT DETECTION SYSTEM TROUBLESHOOTING GUIDE on the wiring diagram which is attached on the back side of the control box panel (RDS PCB Fault Code table). After identifying the mode of operation, take recommended actions as specified in the Recommended Actions for PCB LED Flashing Codes table.

### **REFRIGERANT SENSORS FOR REFRIGERANT:**

DETECTION SYSTEMS shall only be replaced with sensors specified by the manufacturer. If the REFRIGERANT SENSOR requires replacement, please replace with Sensata R32 Sensor PN#RGD-00ML12 (Daikin PN#SER2A08011).

| LED STATUS                        |                                                           |
|-----------------------------------|-----------------------------------------------------------|
| MODE                              | LED FLASHING PATTERN                                      |
| NORMAL OPERATION                  | SLOW LED FLASHING PATTERN<br>(2 SECONDS ON 2 SECONDS OFF) |
| R-32 LEAK ALARM                   | FAST LED FLASHING PATTERN                                 |
| DELAY MODE                        | LED WILL BE ON CONTINUOUSLY                               |
| SYSTEM VERIFICATION<br>MODE       | FAST LED FLASHING PATTERN                                 |
| CONTROL BOARD<br>INTERNAL FAULT   | LED WILL FLASH 2 TIMES AND<br>THEN BE OFF FOR 5 SECONDS   |
| R32 SENSOR<br>COMMUNICATION FAULT | LED WILL FLASH 3 TIMES AND<br>THEN BE OFF FOR 5 SECONDS   |
| R32 SENSOR FAULT                  | LED WILL FLASH 4 TIMES AND<br>THEN BE OFF FOR 5 SECONDS   |

**RDS PCB Fault Code Table**

# APPENDIX A BLOWER PERFORMANCE TABLES - AC

## 7.5 Ton Cooler

### Standard Static Direct Drive

Models: DHC0903D, DHC0904D, DHC0907D

| Down Flow |     |      |     |      | Horizontal Flow |     |      |     |      | Down Flow |     |      |     |      | Horizontal Flow |     |      |     |      |
|-----------|-----|------|-----|------|-----------------|-----|------|-----|------|-----------|-----|------|-----|------|-----------------|-----|------|-----|------|
| SPEED TAP | ESP | CFM  | RPM | BHP  | SPEED TAP       | ESP | CFM  | RPM | BHP  | SPEED TAP | ESP | CFM  | RPM | BHP  | SPEED TAP       | ESP | CFM  | RPM | BHP  |
| T1        | 0.2 | 2013 | 593 | 0.38 | T1              | 0.2 | 1863 | 481 | 0.31 | T6        | 0.2 | 3038 | 751 | 0.98 | T6              | 0.2 | 2993 | 652 | 0.85 |
|           | 0.4 | 1848 | 663 | 0.43 |                 | 0.4 | 1644 | 557 | 0.36 |           | 0.4 | 2928 | 801 | 1.04 |                 | 0.4 | 2869 | 696 | 0.91 |
|           | 0.6 | 1682 | 733 | 0.48 |                 | 0.6 | -    | -   | -    |           | 0.6 | 2816 | 852 | 1.11 |                 | 0.6 | 2730 | 742 | 0.97 |
|           | 0.8 | 1517 | 803 | 0.52 |                 | 0.8 | -    | -   | -    |           | 0.8 | 2713 | 901 | 1.17 |                 | 0.8 | 2606 | 788 | 1.03 |
| T2        | 0.2 | 2554 | 673 | 0.64 | T2              | 0.2 | 2422 | 567 | 0.54 | T7        | 0.2 | 3390 | 812 | 1.29 | T7              | 0.2 | 3350 | 713 | 1.15 |
|           | 0.4 | 2428 | 731 | 0.70 |                 | 0.4 | 2325 | 618 | 0.59 |           | 0.4 | 3281 | 859 | 1.37 |                 | 0.4 | 3248 | 749 | 1.20 |
|           | 0.6 | 2269 | 792 | 0.75 |                 | 0.6 | 2147 | 683 | 0.65 |           | 0.6 | 3178 | 905 | 1.44 |                 | 0.6 | 3116 | 789 | 1.27 |
|           | 0.8 | 2126 | 841 | 0.80 |                 | 0.8 | 1889 | 762 | 0.73 |           | 0.8 | 3075 | 947 | 1.51 |                 | 0.8 | 3027 | 831 | 1.34 |
| T3        | 0.2 | 3038 | 751 | 0.98 | T3              | 0.2 | 2993 | 652 | 0.85 | T8        | 0.2 | 3038 | 751 | 0.98 | T8              | 0.2 | 2097 | 519 | 0.40 |
|           | 0.4 | 2928 | 801 | 1.04 |                 | 0.4 | 2869 | 696 | 0.91 |           | 0.4 | 2928 | 801 | 1.04 |                 | 0.4 | 2869 | 696 | 0.91 |
|           | 0.6 | 2816 | 852 | 1.11 |                 | 0.6 | 2730 | 742 | 0.97 |           | 0.6 | 2816 | 852 | 1.11 |                 | 0.6 | 2730 | 742 | 0.97 |
|           | 0.8 | 2713 | 901 | 1.17 |                 | 0.8 | 2606 | 788 | 1.03 |           | 0.8 | 2713 | 901 | 1.17 |                 | 0.8 | 2606 | 788 | 1.03 |
| T4        | 0.2 | 3220 | 779 | 1.13 | T4              | 0.2 | 3176 | 683 | 0.99 | T9        | 0.2 | 3220 | 779 | 1.13 | T9              | 0.2 | 3176 | 683 | 0.99 |
|           | 0.4 | 3103 | 829 | 1.20 |                 | 0.4 | 3056 | 719 | 1.04 |           | 0.4 | 3103 | 829 | 1.20 |                 | 0.4 | 3056 | 719 | 1.04 |
|           | 0.6 | 3001 | 876 | 1.27 |                 | 0.6 | 2914 | 763 | 1.10 |           | 0.6 | 3001 | 876 | 1.27 |                 | 0.6 | 2914 | 763 | 1.10 |
|           | 0.8 | 2892 | 923 | 1.34 |                 | 0.8 | 2808 | 807 | 1.17 |           | 0.8 | 2892 | 923 | 1.34 |                 | 0.8 | 2808 | 807 | 1.17 |
| T5        | 0.2 | 3390 | 812 | 1.29 | T5              | 0.2 | 3350 | 713 | 1.15 | T10       | 0.2 | 3390 | 812 | 1.29 | T10             | 0.2 | 3350 | 713 | 1.15 |
|           | 0.4 | 3281 | 859 | 1.37 |                 | 0.4 | 3248 | 749 | 1.20 |           | 0.4 | 3281 | 859 | 1.37 |                 | 0.4 | 3248 | 749 | 1.20 |
|           | 0.6 | 3178 | 905 | 1.44 |                 | 0.6 | 3116 | 789 | 1.27 |           | 0.6 | 3178 | 905 | 1.44 |                 | 0.6 | 3116 | 789 | 1.27 |
|           | 0.8 | 3075 | 947 | 1.51 |                 | 0.8 | 3027 | 831 | 1.34 |           | 0.8 | 3075 | 947 | 1.51 |                 | 0.8 | 3027 | 831 | 1.34 |

## 7.5 Ton Cooler

### Medium Static Direct Drive

Models: DHC0903L, DHC0904L, DHC0907L

| Down Flow |      |      |      |      | Horizontal Flow |      |      |     |      | Down Flow |     |      |      |      | Horizontal Flow |     |      |     |      |
|-----------|------|------|------|------|-----------------|------|------|-----|------|-----------|-----|------|------|------|-----------------|-----|------|-----|------|
| SPEED TAP | ESP  | CFM  | RPM  | BHP  | SPEED TAP       | ESP  | CFM  | RPM | BHP  | SPEED     | ESP | CFM  | RPM  | BHP  | SPEED           | ESP | CFM  | RPM | BHP  |
| T1        | 0.20 | 2013 | 593  | 0.38 | T1              | 0.20 | 1863 | 481 | 0.31 | T6        | 0.2 | 3390 | 812  | 1.29 | T6              | 0.2 | 3350 | 713 | 1.15 |
|           | 0.40 | 1848 | 663  | 0.43 |                 | 0.40 | 1644 | 557 | 0.36 |           | 0.4 | 3281 | 859  | 1.37 |                 | 0.4 | 3248 | 749 | 1.20 |
|           | 0.60 | 1682 | 733  | 0.48 |                 | 0.60 | -    | -   | -    |           | 0.6 | 3178 | 905  | 1.44 |                 | 0.6 | 3116 | 789 | 1.27 |
|           | 0.80 | 1517 | 803  | 0.52 |                 | 0.80 | -    | -   | -    |           | 0.8 | 3075 | 947  | 1.51 |                 | 0.8 | 3027 | 831 | 1.34 |
|           | 1.00 | -    | -    | -    |                 | 1.00 | -    | -   | -    |           | 1.0 | 2968 | 994  | 1.59 |                 | 1.0 | 2888 | 874 | 1.40 |
|           | 1.20 | -    | -    | -    |                 | 1.20 | -    | -   | -    |           | 1.2 | 2861 | 1036 | 1.65 |                 | 1.2 | 2742 | 923 | 1.48 |
|           | 1.40 | -    | -    | -    |                 | 1.40 | -    | -   | -    |           | 1.4 | -    | -    | -    |                 | 1.4 | 2611 | 974 | 1.57 |
| T2        | 0.2  | 3123 | 768  | 1.05 | T2              | 0.20 | 3067 | 653 | 0.89 | T7        | 0.2 | 3675 | 866  | 1.63 | T7              | 0.2 | 3676 | 775 | 1.48 |
|           | 0.4  | 3011 | 818  | 1.12 |                 | 0.40 | 2912 | 696 | 0.95 |           | 0.4 | 3577 | 906  | 1.70 |                 | 0.4 | 3529 | 819 | 1.56 |
|           | 0.6  | 2902 | 864  | 1.18 |                 | 0.60 | 2711 | 750 | 1.03 |           | 0.6 | 3483 | 948  | 1.78 |                 | 0.6 | 3451 | 847 | 1.61 |
|           | 0.8  | 2798 | 912  | 1.25 |                 | 0.80 | 2564 | 791 | 1.08 |           | 0.8 | 3385 | 988  | 1.86 |                 | 0.8 | 3359 | 880 | 1.68 |
|           | 1.0  | 2681 | 961  | 1.32 |                 | 1.00 | 2396 | 837 | 1.15 |           | 1.0 | 3300 | 1028 | 1.93 |                 | 1.0 | 3227 | 919 | 1.75 |
|           | 1.2  | 2501 | 1010 | 1.38 |                 | 1.20 | 2132 | 905 | 1.24 |           | 1.2 | 3208 | 1070 | 2.01 |                 | 1.2 | 3129 | 954 | 1.82 |
|           | 1.4  | 2266 | 1076 | 1.47 |                 | 1.40 | 1872 | 971 | 1.33 |           | 1.4 | 3112 | 1109 | 2.09 |                 | 1.4 | 3001 | 993 | 1.89 |
| T3        | 0.2  | 3038 | 751  | 0.98 | T3              | 0.2  | 2950 | 667 | 0.87 | T8        | 0.2 | 3390 | 812  | 1.29 | T8              | 0.2 | 3350 | 713 | 1.15 |
|           | 0.4  | 2928 | 801  | 1.04 |                 | 0.4  | 2869 | 696 | 0.91 |           | 0.4 | 3281 | 859  | 1.37 |                 | 0.4 | 3248 | 749 | 1.20 |
|           | 0.6  | 2816 | 852  | 1.11 |                 | 0.6  | 2730 | 742 | 0.97 |           | 0.6 | 3178 | 905  | 1.44 |                 | 0.6 | 3116 | 789 | 1.27 |
|           | 0.8  | 2713 | 901  | 1.17 |                 | 0.8  | 2606 | 788 | 1.03 |           | 0.8 | 3075 | 947  | 1.51 |                 | 0.8 | 3027 | 831 | 1.34 |
|           | 1.0  | 2591 | 951  | 1.24 |                 | 1.0  | 2456 | 841 | 1.10 |           | 1.0 | 2968 | 994  | 1.59 |                 | 1.0 | 2888 | 874 | 1.40 |
|           | 1.2  | 2369 | 1003 | 1.31 |                 | 1.2  | -    | -   | -    |           | 1.2 | 2861 | 1036 | 1.65 |                 | 1.2 | 2742 | 923 | 1.48 |
|           | 1.4  | -    | -    | -    |                 | 1.4  | -    | -   | -    |           | 1.4 | -    | -    | -    |                 | 1.4 | 2611 | 974 | 1.57 |
| T4        | 0.2  | 3538 | 847  | 1.47 | T4              | 0.2  | 3559 | 653 | 1.28 | T9        | 0.2 | 3538 | 847  | 1.47 | T9              | 0.2 | 3559 | 653 | 1.28 |
|           | 0.4  | 3436 | 884  | 1.54 |                 | 0.4  | 3410 | 781 | 1.36 |           | 0.4 | 3436 | 884  | 1.54 |                 | 0.4 | 3410 | 781 | 1.36 |
|           | 0.6  | 3325 | 930  | 1.62 |                 | 0.6  | 3292 | 818 | 1.42 |           | 0.6 | 3325 | 930  | 1.62 |                 | 0.6 | 3292 | 818 | 1.42 |
|           | 0.8  | 3243 | 971  | 1.69 |                 | 0.8  | 3217 | 849 | 1.48 |           | 0.8 | 3243 | 971  | 1.69 |                 | 0.8 | 3217 | 849 | 1.48 |
|           | 1.0  | 3154 | 1017 | 1.77 |                 | 1.0  | 3084 | 892 | 1.55 |           | 1.0 | 3154 | 1017 | 1.77 |                 | 1.0 | 3084 | 892 | 1.55 |
|           | 1.2  | 3040 | 1056 | 1.84 |                 | 1.2  | 2966 | 931 | 1.62 |           | 1.2 | 3040 | 1056 | 1.84 |                 | 1.2 | 2966 | 931 | 1.62 |
|           | 1.4  | 2918 | 1095 | 1.90 |                 | 1.4  | 2845 | 971 | 1.69 |           | 1.4 | 2918 | 1095 | 1.90 |                 | 1.4 | 2845 | 971 | 1.69 |
| T5        | 0.2  | 3675 | 866  | 1.63 | T5              | 0.2  | 3676 | 775 | 1.48 | T10       | 0.2 | 3675 | 866  | 1.63 | T10             | 0.2 | 3676 | 775 | 1.48 |
|           | 0.4  | 3577 | 906  | 1.70 |                 | 0.4  | 3529 | 819 | 1.56 |           | 0.4 | 3577 | 906  | 1.70 |                 | 0.4 | 3529 | 819 | 1.56 |
|           | 0.6  | 3483 | 948  | 1.78 |                 | 0.6  | 3451 | 847 | 1.61 |           | 0.6 | 3483 | 948  | 1.78 |                 | 0.6 | 3451 | 847 | 1.61 |
|           | 0.8  | 3385 | 988  | 1.86 |                 | 0.8  | 3359 | 880 | 1.68 |           | 0.8 | 3385 | 988  | 1.86 |                 | 0.8 | 3359 | 880 | 1.68 |
|           | 1.0  | 3300 | 1028 | 1.93 |                 | 1.0  | 3227 | 919 | 1.75 |           | 1.0 | 3300 | 1028 | 1.93 |                 | 1.0 | 3227 | 919 | 1.75 |
|           | 1.2  | 3208 | 1070 | 2.01 |                 | 1.2  | 3129 | 954 | 1.82 |           | 1.2 | 3208 | 1070 | 2.01 |                 | 1.2 | 3129 | 954 | 1.82 |
|           | 1.4  | 3112 | 1109 | 2.09 |                 | 1.4  | 3001 | 993 | 1.89 |           | 1.4 | 3112 | 1109 | 2.09 |                 | 1.4 | 3001 | 993 | 1.89 |

#### Note:

- Taps T1 and T2 are for first stage of cooling only. Taps T6 and T7 are for first stage of heating only. Refer to page 11 for speed tap selection.
- Shaded area are not recommended for cooling or heating operation.
- Airflow table includes resistance for base unit only with 2" clean air filters in place. Any Additional air resistance caused by factory or field installed options or accessories must be added to the ESP in order to select the correct speed tap.

# APPENDIX A BLOWER PERFORMANCE TABLES - AC

## 7.5 Ton Cooler

### High Static Direct Drive

Models: DHC0903W, DHC0904W, DHC0907W

| Down Flow |     |      |      |      | Horizontal Flow |     |      |      |      | Down Flow |     |      |      |      | Horizontal Flow |     |      |      |      |
|-----------|-----|------|------|------|-----------------|-----|------|------|------|-----------|-----|------|------|------|-----------------|-----|------|------|------|
| SPEED TAP | ESP | CFM  | RPM  | BHP  | SPEED TAP       | ESP | CFM  | RPM  | BHP  | SPEED     | ESP | CFM  | RPM  | BHP  | SPEED           | ESP | CFM  | RPM  | BHP  |
| T1        | 0.2 | 2013 | 593  | 0.38 | T1              | 0.2 | 1863 | 481  | 0.31 | T6        | 0.2 | 3586 | 881  | 1.66 | T6              | 0.2 | 3586 | 764  | 1.47 |
|           | 0.4 | 1848 | 663  | 0.43 |                 | 0.4 | 1644 | 557  | 0.36 |           | 0.4 | 3577 | 906  | 1.70 |                 | 0.4 | 3529 | 819  | 1.56 |
|           | 0.6 | 1682 | 733  | 0.48 |                 | 0.6 | -    | -    | -    |           | 0.6 | 3483 | 948  | 1.78 |                 | 0.6 | 3451 | 847  | 1.61 |
|           | 0.8 | 1517 | 803  | 0.52 |                 | 0.8 | -    | -    | -    |           | 0.8 | 3385 | 988  | 1.86 |                 | 0.8 | 3359 | 880  | 1.68 |
|           | 1.0 | -    | -    | -    |                 | 1.0 | -    | -    | -    |           | 1.0 | 3300 | 1028 | 1.93 |                 | 1.0 | 3227 | 919  | 1.75 |
|           | 1.2 | -    | -    | -    |                 | 1.2 | -    | -    | -    |           | 1.2 | 3208 | 1070 | 2.01 |                 | 1.2 | 3129 | 954  | 1.82 |
|           | 1.4 | -    | -    | -    |                 | 1.4 | -    | -    | -    |           | 1.4 | 3112 | 1109 | 2.09 |                 | 1.4 | 3001 | 993  | 1.89 |
|           | 1.6 | -    | -    | -    |                 | 1.6 | -    | -    | -    |           | 1.6 | 2995 | 1150 | 2.16 |                 | 1.6 | 2840 | 1040 | 1.98 |
|           | 1.8 | -    | -    | -    |                 | 1.8 | -    | -    | -    |           | 1.8 | 2874 | 1197 | 2.25 |                 | 1.8 | 2702 | 1085 | 2.07 |
|           | 2.0 | -    | -    | -    |                 | 2.0 | -    | -    | -    |           | 2.0 | 2573 | 1279 | 2.41 |                 | 2.0 | 2471 | 1142 | 2.18 |
| T2        | 0.2 | 3220 | 779  | 1.13 | T2              | 0.2 | 3152 | 684  | 0.99 | T7        | 0.2 | -    | -    | -    | T7              | 0.2 | -    | -    | -    |
|           | 0.4 | 3103 | 829  | 1.20 |                 | 0.4 | 3056 | 719  | 1.04 |           | 0.4 | -    | -    | -    |                 | 0.4 | -    | -    | -    |
|           | 0.6 | 3001 | 876  | 1.27 |                 | 0.6 | 2899 | 768  | 1.11 |           | 0.6 | -    | -    | -    |                 | 0.6 | -    | -    | -    |
|           | 0.8 | 2892 | 923  | 1.34 |                 | 0.8 | 2808 | 807  | 1.17 |           | 0.8 | 3676 | 1026 | 2.23 |                 | 0.8 | 3629 | 927  | 2.02 |
|           | 1.0 | 2782 | 971  | 1.40 |                 | 1.0 | 2647 | 851  | 1.23 |           | 1.0 | 3592 | 1061 | 2.31 |                 | 1.0 | 3533 | 958  | 2.09 |
|           | 1.2 | 2653 | 1018 | 1.47 |                 | 1.2 | 2476 | 910  | 1.32 |           | 1.2 | 3522 | 1095 | 2.38 |                 | 1.2 | 3448 | 988  | 2.15 |
|           | 1.4 | 2417 | 1095 | 1.58 |                 | 1.4 | 2182 | 987  | 1.43 |           | 1.4 | 3441 | 1141 | 2.48 |                 | 1.4 | 3342 | 1021 | 2.22 |
|           | 1.6 | 2202 | 1154 | 1.67 |                 | 1.6 | 2014 | 1034 | 1.50 |           | 1.6 | 3343 | 1178 | 2.56 |                 | 1.6 | 3230 | 1057 | 2.30 |
|           | 1.8 | 2080 | 1192 | 1.72 |                 | 1.8 | 1886 | 1068 | 1.54 |           | 1.8 | 3234 | 1218 | 2.65 |                 | 1.8 | 3114 | 1095 | 2.38 |
|           | 2.0 | 1947 | 1224 | 1.77 |                 | 2.0 | 1764 | 1102 | 1.59 |           | 2.0 | 3164 | 1246 | 2.71 |                 | 2.0 | 2976 | 1142 | 2.49 |
| T3        | 0.2 | 3038 | 751  | 0.98 | T3              | 0.2 | 2993 | 652  | 0.85 | T8        | 0.2 | 3586 | 881  | 1.66 | T8              | 0.2 | 3586 | 764  | 1.47 |
|           | 0.4 | 2928 | 801  | 1.04 |                 | 0.4 | 2869 | 696  | 0.91 |           | 0.4 | 3577 | 906  | 1.70 |                 | 0.4 | 3529 | 819  | 1.56 |
|           | 0.6 | 2816 | 852  | 1.11 |                 | 0.6 | 2730 | 742  | 0.97 |           | 0.6 | 3483 | 948  | 1.78 |                 | 0.6 | 3451 | 847  | 1.61 |
|           | 0.8 | 2713 | 901  | 1.17 |                 | 0.8 | 2606 | 788  | 1.03 |           | 0.8 | 3385 | 988  | 1.86 |                 | 0.8 | 3359 | 880  | 1.68 |
|           | 1.0 | 2591 | 951  | 1.24 |                 | 1.0 | 2456 | 841  | 1.10 |           | 1.0 | 3300 | 1028 | 1.93 |                 | 1.0 | 3227 | 919  | 1.75 |
|           | 1.2 | 2369 | 1003 | 1.31 |                 | 1.2 | 2333 | 884  | 1.15 |           | 1.2 | 3208 | 1070 | 2.01 |                 | 1.2 | 3129 | 954  | 1.82 |
|           | 1.4 | -    | -    | -    |                 | 1.4 | -    | -    | -    |           | 1.4 | 3112 | 1109 | 2.09 |                 | 1.4 | 3001 | 993  | 1.89 |
|           | 1.6 | -    | -    | -    |                 | 1.6 | -    | -    | -    |           | 1.6 | 2995 | 1150 | 2.16 |                 | 1.6 | 2840 | 1040 | 1.98 |
|           | 1.8 | -    | -    | -    |                 | 1.8 | -    | -    | -    |           | 1.8 | 2874 | 1197 | 2.25 |                 | 1.8 | 2702 | 1085 | 2.07 |
|           | 2.0 | -    | -    | -    |                 | 2.0 | -    | -    | -    |           | 2.0 | 2573 | 1279 | 2.41 |                 | 2.0 | 2471 | 1142 | 2.18 |
| T4        | 0.2 | -    | -    | -    | T4              | 0.2 | -    | -    | -    | T9        | 0.2 | -    | -    | -    | T9              | 0.2 | -    | -    | -    |
|           | 0.4 | -    | -    | -    |                 | 0.4 | -    | -    | -    |           | 0.4 | -    | -    | -    |                 | 0.4 | -    | -    | -    |
|           | 0.6 | 3696 | 956  | 1.94 |                 | 0.6 | 3644 | 851  | 1.73 |           | 0.6 | 3696 | 956  | 1.94 |                 | 0.6 | 3644 | 851  | 1.73 |
|           | 0.8 | 3543 | 1008 | 2.05 |                 | 0.8 | 3496 | 897  | 1.82 |           | 0.8 | 3543 | 1008 | 2.05 |                 | 0.8 | 3496 | 897  | 1.82 |
|           | 1.0 | 3454 | 1047 | 2.13 |                 | 1.0 | 3378 | 933  | 1.89 |           | 1.0 | 3454 | 1047 | 2.13 |                 | 1.0 | 3378 | 933  | 1.89 |
|           | 1.2 | 3376 | 1089 | 2.21 |                 | 1.2 | 3281 | 969  | 1.97 |           | 1.2 | 3376 | 1089 | 2.21 |                 | 1.2 | 3281 | 969  | 1.97 |
|           | 1.4 | 3284 | 1126 | 2.29 |                 | 1.4 | 3165 | 1004 | 2.04 |           | 1.4 | 3284 | 1126 | 2.29 |                 | 1.4 | 3165 | 1004 | 2.04 |
|           | 1.6 | 3189 | 1161 | 2.36 |                 | 1.6 | 3029 | 1046 | 2.12 |           | 1.6 | 3189 | 1161 | 2.36 |                 | 1.6 | 3029 | 1046 | 2.12 |
|           | 1.8 | 3054 | 1217 | 2.47 |                 | 1.8 | 2901 | 1088 | 2.21 |           | 1.8 | 3054 | 1217 | 2.47 |                 | 1.8 | 2901 | 1088 | 2.21 |
|           | 2.0 | 2822 | 1285 | 2.61 |                 | 2.0 | 2719 | 1140 | 2.31 |           | 2.0 | 2822 | 1285 | 2.61 |                 | 2.0 | 2719 | 1140 | 2.31 |
| T5        | 0.2 | -    | -    | -    | T5              | 0.2 | -    | -    | -    | T10       | 0.2 | -    | -    | -    | T10             | 0.2 | -    | -    | -    |
|           | 0.4 | -    | -    | -    |                 | 0.4 | -    | -    | -    |           | 0.4 | -    | -    | -    |                 | 0.4 | -    | -    | -    |
|           | 0.6 | -    | -    | -    |                 | 0.6 | -    | -    | -    |           | 0.6 | -    | -    | -    |                 | 0.6 | -    | -    | -    |
|           | 0.8 | 3676 | 1026 | 2.23 |                 | 0.8 | 3629 | 927  | 2.02 |           | 0.8 | 3676 | 1026 | 2.23 |                 | 0.8 | 3629 | 927  | 2.02 |
|           | 1.0 | 3592 | 1061 | 2.31 |                 | 1.0 | 3533 | 958  | 2.09 |           | 1.0 | 3592 | 1061 | 2.31 |                 | 1.0 | 3533 | 958  | 2.09 |
|           | 1.2 | 3522 | 1095 | 2.38 |                 | 1.2 | 3448 | 988  | 2.15 |           | 1.2 | 3522 | 1095 | 2.38 |                 | 1.2 | 3448 | 988  | 2.15 |
|           | 1.4 | 3441 | 1141 | 2.48 |                 | 1.4 | 3342 | 1021 | 2.22 |           | 1.4 | 3441 | 1141 | 2.48 |                 | 1.4 | 3342 | 1021 | 2.22 |
|           | 1.6 | 3343 | 1178 | 2.56 |                 | 1.6 | 3230 | 1057 | 2.30 |           | 1.6 | 3343 | 1178 | 2.56 |                 | 1.6 | 3230 | 1057 | 2.30 |
|           | 1.8 | 3234 | 1218 | 2.65 |                 | 1.8 | 3114 | 1095 | 2.38 |           | 1.8 | 3234 | 1218 | 2.65 |                 | 1.8 | 3114 | 1095 | 2.38 |
|           | 2.0 | 3164 | 1246 | 2.71 |                 | 2.0 | 2976 | 1142 | 2.49 |           | 2.0 | 3164 | 1246 | 2.71 |                 | 2.0 | 2976 | 1142 | 2.49 |

#### Note:

- Taps T1 and T2 are for first stage of cooling only. Taps T6 and T7 are for first stage of heating only. Refer to page 11 for speed tap selection.
- Shaded area are not recommended for cooling or heating operation.
- Airflow table includes resistance for base unit only with 2" clean air filters in place. Any Additional air resistance caused by factory or field installed options or accessories must be added to the ESP in order to select the correct speed tap.

# APPENDIX A BLOWER PERFORMANCE TABLES - AC

## 8.5Ton Cooler

### Standard Static Direct Drive

Models: DHC1023D, DHC1024D, DHC1027D

| Down Flow |     |      |     |      | Horizontal Flow |     |      |     |      | Down Flow |     |      |     |      | Horizontal Flow |     |      |     |      |
|-----------|-----|------|-----|------|-----------------|-----|------|-----|------|-----------|-----|------|-----|------|-----------------|-----|------|-----|------|
| SPEED TAP | ESP | CFM  | RPM | BHP  | SPEED TAP       | ESP | CFM  | RPM | BHP  | SPEED TAP | ESP | CFM  | RPM | BHP  | SPEED TAP       | ESP | CFM  | RPM | BHP  |
| T1        | 0.2 | 2160 | 472 | 0.37 | T1              | 0.2 | 2209 | 462 | 0.36 | T6        | 0.2 | 3131 | 609 | 0.83 | T6              | 0.2 | 3133 | 601 | 0.82 |
|           | 0.4 | 1958 | 530 | 0.41 |                 | 0.4 | 2046 | 524 | 0.41 |           | 0.4 | 2967 | 657 | 0.90 |                 | 0.4 | 3017 | 647 | 0.89 |
|           | 0.6 | -    | -   | -    |                 | 0.6 | -    | -   | -    |           | 0.6 | 2774 | 709 | 0.97 |                 | 0.6 | 2858 | 699 | 0.96 |
|           | 0.8 | -    | -   | -    |                 | 0.8 | -    | -   | -    |           | 0.8 | -    | -   | -    |                 | 0.8 | 2787 | 735 | 1.01 |
| T2        | 0.2 | 2805 | 564 | 0.64 | T2              | 0.2 | 2822 | 557 | 0.63 | T7        | 0.2 | 3824 | 703 | 1.36 | T7              | 0.2 | 3806 | 697 | 1.34 |
|           | 0.4 | 2638 | 619 | 0.70 |                 | 0.4 | 2693 | 609 | 0.69 |           | 0.4 | 3704 | 743 | 1.43 |                 | 0.4 | 3727 | 734 | 1.42 |
|           | 0.6 | 2435 | 676 | 0.76 |                 | 0.6 | 2534 | 663 | 0.75 |           | 0.6 | 3531 | 773 | 1.50 |                 | 0.6 | 3590 | 781 | 1.49 |
|           | 0.8 | 2256 | 723 | 0.82 |                 | 0.8 | 2451 | 706 | 0.80 |           | 0.8 | 3414 | 823 | 1.60 |                 | 0.8 | 3556 | 820 | 1.58 |
| T3        | 0.2 | 3131 | 609 | 0.83 | T3              | 0.2 | 3133 | 601 | 0.82 | T8        | 0.2 | 3131 | 609 | 0.83 | T8              | 0.2 | 3133 | 601 | 0.82 |
|           | 0.4 | 2967 | 657 | 0.90 |                 | 0.4 | 3017 | 647 | 0.89 |           | 0.4 | 2967 | 657 | 0.90 |                 | 0.4 | 3017 | 647 | 0.89 |
|           | 0.6 | 2774 | 709 | 0.97 |                 | 0.6 | 2858 | 699 | 0.96 |           | 0.6 | 2774 | 709 | 0.97 |                 | 0.6 | 2858 | 699 | 0.96 |
|           | 0.8 | 2605 | 750 | 1.03 |                 | 0.8 | 2787 | 735 | 1.01 |           | 0.8 | -    | -   | -    |                 | 0.8 | 2787 | 735 | 1.01 |
| T4        | 0.2 | 3366 | 644 | 1.00 | T4              | 0.2 | 3381 | 642 | 1.00 | T9        | 0.2 | 3366 | 644 | 1.00 | T9              | 0.2 | 3381 | 642 | 1.00 |
|           | 0.4 | 3222 | 689 | 1.08 |                 | 0.4 | 3274 | 685 | 1.07 |           | 0.4 | 3222 | 689 | 1.08 |                 | 0.4 | 3274 | 685 | 1.07 |
|           | 0.6 | 3055 | 738 | 1.15 |                 | 0.6 | 3143 | 733 | 1.14 |           | 0.6 | 3055 | 738 | 1.15 |                 | 0.6 | 3143 | 733 | 1.14 |
|           | 0.8 | 2891 | 778 | 1.21 |                 | 0.8 | 3058 | 768 | 1.20 |           | 0.8 | 2891 | 778 | 1.21 |                 | 0.8 | 3058 | 768 | 1.20 |
| T5        | 0.2 | 3824 | 703 | 1.36 | T5              | 0.2 | 3806 | 697 | 1.34 | T10       | 0.2 | 3824 | 703 | 1.36 | T10             | 0.2 | 3806 | 697 | 1.34 |
|           | 0.4 | 3704 | 743 | 1.43 |                 | 0.4 | 3727 | 734 | 1.42 |           | 0.4 | 3704 | 743 | 1.43 |                 | 0.4 | 3727 | 734 | 1.42 |
|           | 0.6 | 3531 | 773 | 1.50 |                 | 0.6 | 3590 | 781 | 1.49 |           | 0.6 | 3531 | 773 | 1.50 |                 | 0.6 | 3590 | 781 | 1.49 |
|           | 0.8 | 3414 | 823 | 1.60 |                 | 0.8 | 3556 | 820 | 1.58 |           | 0.8 | 3414 | 823 | 1.60 |                 | 0.8 | 3556 | 820 | 1.58 |

## 8.5 Ton Cooler

### Medium Static Direct Drive

Models: DHC1023L, DHC1024L, DHC1027L

| Down Flow |     |      |     |      | Horizontal Flow |     |      |     |      | Down Flow |     |      |     |      | Horizontal Flow |     |      |     |      |
|-----------|-----|------|-----|------|-----------------|-----|------|-----|------|-----------|-----|------|-----|------|-----------------|-----|------|-----|------|
| SPEED TAP | ESP | CFM  | RPM | BHP  | SPEED TAP       | ESP | CFM  | RPM | BHP  | SPEED TAP | ESP | CFM  | RPM | BHP  | SPEED TAP       | ESP | CFM  | RPM | BHP  |
| T1        | 0.2 | 2160 | 472 | 0.37 | T1              | 0.2 | 2209 | 462 | 0.36 | T6        | 0.2 | 3565 | 671 | 1.15 | T6              | 0.2 | 3560 | 660 | 1.13 |
|           | 0.4 | 1958 | 530 | 0.41 |                 | 0.4 | 2046 | 524 | 0.41 |           | 0.4 | 3412 | 715 | 1.22 |                 | 0.4 | 3452 | 704 | 1.20 |
|           | 0.6 | 1703 | 601 | 0.46 |                 | 0.6 | 1841 | 600 | 0.46 |           | 0.6 | 3247 | 760 | 1.30 |                 | 0.6 | 3330 | 748 | 1.28 |
|           | 0.8 | -    | -   | -    |                 | 0.8 | -    | -   | -    |           | 0.8 | 3089 | 795 | 1.36 |                 | 0.8 | 3251 | 787 | 1.35 |
|           | 1.0 | -    | -   | -    |                 | 1.0 | -    | -   | -    |           | 1.0 | 2874 | 846 | 1.45 |                 | 1.0 | 3111 | 834 | 1.42 |
|           | 1.2 | -    | -   | -    |                 | 1.2 | -    | -   | -    |           | 1.2 | -    | -   | -    |                 | 1.2 | 3018 | 869 | 1.48 |
|           | 1.4 | -    | -   | -    |                 | 1.4 | -    | -   | -    |           | 1.4 | -    | -   | -    |                 | 1.4 | 2918 | 907 | 1.55 |
| T2        | 0.2 | 3366 | 644 | 1.00 | T2              | 0.2 | 3381 | 642 | 1.00 | T7        | 0.2 | -    | -   | -    | T7              | 0.2 | -    | -   | -    |
|           | 0.4 | 3222 | 689 | 1.08 |                 | 0.4 | 3274 | 685 | 1.07 |           | 0.4 | 4246 | 810 | 1.76 |                 | 0.4 | 4220 | 795 | 1.73 |
|           | 0.6 | 3055 | 738 | 1.15 |                 | 0.6 | 3143 | 733 | 1.14 |           | 0.6 | 4022 | 846 | 1.85 |                 | 0.6 | 4127 | 828 | 1.81 |
|           | 0.8 | 2891 | 778 | 1.21 |                 | 0.8 | 3058 | 768 | 1.20 |           | 0.8 | 3854 | 881 | 1.94 |                 | 0.8 | 4033 | 862 | 1.90 |
|           | 1.0 | 2680 | 829 | 1.29 |                 | 1.0 | 2900 | 821 | 1.28 |           | 1.0 | 3685 | 917 | 2.03 |                 | 1.0 | 3940 | 894 | 1.98 |
|           | 1.2 | 2478 | 872 | 1.36 |                 | 1.2 | 2784 | 860 | 1.34 |           | 1.2 | 3572 | 952 | 2.11 |                 | 1.2 | 3846 | 929 | 2.06 |
|           | 1.4 | 2274 | 908 | 1.42 |                 | 1.4 | 2672 | 895 | 1.40 |           | 1.4 | 3348 | 987 | 2.20 |                 | 1.4 | 3753 | 963 | 2.15 |
| T3        | 0.2 | 3131 | 609 | 0.83 | T3              | 0.2 | 3133 | 601 | 0.82 | T8        | 0.2 | 3565 | 671 | 1.15 | T8              | 0.2 | 3560 | 660 | 1.13 |
|           | 0.4 | 2967 | 657 | 0.90 |                 | 0.4 | 3017 | 647 | 0.89 |           | 0.4 | 3412 | 715 | 1.22 |                 | 0.4 | 3452 | 704 | 1.20 |
|           | 0.6 | 2774 | 709 | 0.97 |                 | 0.6 | 2858 | 699 | 0.96 |           | 0.6 | 3247 | 760 | 1.30 |                 | 0.6 | 3330 | 748 | 1.28 |
|           | 0.8 | 2605 | 750 | 1.03 |                 | 0.8 | 2787 | 735 | 1.01 |           | 0.8 | 3089 | 795 | 1.36 |                 | 0.8 | 3251 | 787 | 1.35 |
|           | 1.0 | -    | -   | -    |                 | 1.0 | 2630 | 787 | 1.08 |           | 1.0 | 2874 | 846 | 1.45 |                 | 1.0 | 3111 | 834 | 1.42 |
|           | 1.2 | -    | -   | -    |                 | 1.2 | -    | -   | -    |           | 1.2 | -    | -   | -    |                 | 1.2 | 3018 | 869 | 1.48 |
|           | 1.4 | -    | -   | -    |                 | 1.4 | -    | -   | -    |           | 1.4 | -    | -   | -    |                 | 1.4 | 2918 | 907 | 1.55 |
| T4        | 0.2 | 3814 | 703 | 1.34 | T4              | 0.2 | 3804 | 692 | 1.32 | T9        | 0.2 | 3814 | 703 | 1.34 | T9              | 0.2 | 3804 | 692 | 1.32 |
|           | 0.4 | 3652 | 747 | 1.42 |                 | 0.4 | 3698 | 735 | 1.40 |           | 0.4 | 3652 | 747 | 1.42 |                 | 0.4 | 3698 | 735 | 1.40 |
|           | 0.6 | 3489 | 790 | 1.50 |                 | 0.6 | 3595 | 776 | 1.48 |           | 0.6 | 3489 | 790 | 1.50 |                 | 0.6 | 3595 | 776 | 1.48 |
|           | 0.8 | 3305 | 832 | 1.59 |                 | 0.8 | 3480 | 817 | 1.56 |           | 0.8 | 3305 | 832 | 1.59 |                 | 0.8 | 3480 | 817 | 1.56 |
|           | 1.0 | 3125 | 872 | 1.66 |                 | 1.0 | 3364 | 856 | 1.63 |           | 1.0 | 3125 | 872 | 1.66 |                 | 1.0 | 3364 | 856 | 1.63 |
|           | 1.2 | 2941 | 912 | 1.74 |                 | 1.2 | 3260 | 893 | 1.70 |           | 1.2 | 2941 | 912 | 1.74 |                 | 1.2 | 3260 | 893 | 1.70 |
|           | 1.4 | -    | -   | -    |                 | 1.4 | 3151 | 931 | 1.77 |           | 1.4 | -    | -   | -    |                 | 1.4 | 3151 | 931 | 1.77 |
| T5        | 0.2 | -    | -   | -    | T5              | 0.2 | -    | -   | -    | T10       | 0.2 | -    | -   | -    | T10             | 0.2 | -    | -   | -    |
|           | 0.4 | 4246 | 810 | 1.76 |                 | 0.4 | 4220 | 795 | 1.73 |           | 0.4 | 4246 | 810 | 1.76 |                 | 0.4 | 4220 | 795 | 1.73 |
|           | 0.6 | 4022 | 846 | 1.85 |                 | 0.6 | 4127 | 828 | 1.81 |           | 0.6 | 4022 | 846 | 1.85 |                 | 0.6 | 4127 | 828 | 1.81 |
|           | 0.8 | 3854 | 881 | 1.94 |                 | 0.8 | 4033 | 862 | 1.90 |           | 0.8 | 3854 | 881 | 1.94 |                 | 0.8 | 4033 | 862 | 1.90 |
|           | 1.0 | 3685 | 917 | 2.03 |                 | 1.0 | 3940 | 894 | 1.98 |           | 1.0 | 3685 | 917 | 2.03 |                 | 1.0 | 3940 | 894 | 1.98 |
|           | 1.2 | 3572 | 952 | 2.11 |                 | 1.2 | 3846 | 929 | 2.06 |           | 1.2 | 3572 | 952 | 2.11 |                 | 1.2 | 3846 | 929 | 2.06 |
|           | 1.4 | 3348 | 987 | 2.20 |                 | 1.4 | 3753 | 963 | 2.15 |           | 1.4 | 3348 | 987 | 2.20 |                 | 1.4 | 3753 | 963 | 2.15 |

#### Note:

- Taps T1 and T2 are for first stage of cooling only. Taps T6 and T7 are for first stage of heating only. Refer to page 11 for speed tap selection.
- Shaded area are not recommended for cooling or heating operation.
- Airflow table includes resistance for base unit only with 2" clean air filters in place. Any Additional air resistance caused by factory or field installed options or accessories must be added to the ESP in order to select the correct speed tap.

# APPENDIX A BLOWER PERFORMANCE TABLES - AC

## 8.5Ton Cooler

### High Static Direct Drive

Models: DHC1023W, DHC1024W, DHC1027W

| Down Flow |     |      |      |      | Horizontal Flow |     |      |      |      |     |     |      |      |      |     |     |      |      |      |
|-----------|-----|------|------|------|-----------------|-----|------|------|------|-----|-----|------|------|------|-----|-----|------|------|------|
| SPEED TAP | ESP | CFM  | RPM  | BHP  | SPEED TAP       | ESP | CFM  | RPM  | BHP  |     |     |      |      |      |     |     |      |      |      |
| T1        | 0.2 | 2160 | 472  | 0.37 | T1              | 0.2 | 2209 | 462  | 0.36 | T6  | 0.2 | 4123 | 746  | 1.62 | T6  | 0.2 | 4124 | 729  | 1.58 |
|           | 0.4 | 1958 | 530  | 0.41 |                 | 0.4 | 2046 | 524  | 0.41 |     | 0.4 | 3966 | 787  | 1.71 |     | 0.4 | 4013 | 771  | 1.67 |
|           | 0.6 | 1703 | 601  | 0.46 |                 | 0.6 | 1841 | 600  | 0.46 |     | 0.6 | 3807 | 827  | 1.79 |     | 0.6 | 3905 | 811  | 1.76 |
|           | 0.8 | -    | -    | -    |                 | 0.8 | -    | -    | -    |     | 0.8 | 3628 | 867  | 1.88 |     | 0.8 | 3797 | 850  | 1.84 |
|           | 1.0 | -    | -    | -    |                 | 1.0 | -    | -    | -    |     | 1.0 | 3460 | 905  | 1.96 |     | 1.0 | 3689 | 886  | 1.92 |
|           | 1.2 | -    | -    | -    |                 | 1.2 | -    | -    | -    |     | 1.2 | 3275 | 942  | 2.0  |     | 1.2 | 3586 | 923  | 2.0  |
|           | 1.4 | -    | -    | -    |                 | 1.4 | -    | -    | -    |     | 1.4 | 3085 | 980  | 2.12 |     | 1.4 | 3479 | 958  | 2.08 |
|           | 1.6 | -    | -    | -    |                 | 1.6 | -    | -    | -    |     | 1.6 | 2908 | 1013 | 2.19 |     | 1.6 | 3380 | 991  | 2.15 |
|           | 1.8 | -    | -    | -    |                 | 1.8 | -    | -    | -    |     | 1.8 | -    | -    | -    |     | 1.8 | 3289 | 1023 | 2.22 |
|           | 2.0 | -    | -    | -    |                 | 2.0 | -    | -    | -    |     | 2.0 | -    | -    | -    |     | 2.0 | 3174 | 1051 | 2.28 |
| T2        | 0.2 | 3814 | 703  | 1.34 | T2              | 0.2 | 3804 | 692  | 1.32 | T7  | 0.2 | 4123 | 746  | 1.62 | T7  | 0.2 | 4124 | 729  | 1.58 |
|           | 0.4 | 3652 | 747  | 1.42 |                 | 0.4 | 3698 | 735  | 1.40 |     | 0.4 | 3966 | 787  | 1.71 |     | 0.4 | 4013 | 771  | 1.67 |
|           | 0.6 | 3489 | 790  | 1.50 |                 | 0.6 | 3595 | 776  | 1.48 |     | 0.6 | 3807 | 827  | 1.79 |     | 0.6 | 3905 | 811  | 1.76 |
|           | 0.8 | 3305 | 832  | 1.59 |                 | 0.8 | 3480 | 817  | 1.56 |     | 0.8 | 3628 | 867  | 1.88 |     | 0.8 | 3797 | 850  | 1.84 |
|           | 1.0 | 3125 | 872  | 1.66 |                 | 1.0 | 3364 | 856  | 1.63 |     | 1.0 | 3460 | 905  | 1.96 |     | 1.0 | 3689 | 886  | 1.92 |
|           | 1.2 | 2941 | 912  | 1.74 |                 | 1.2 | 3260 | 893  | 1.70 |     | 1.2 | 3275 | 942  | 2.0  |     | 1.2 | 3586 | 923  | 2.0  |
|           | 1.4 | 2743 | 952  | 1.81 |                 | 1.4 | 3151 | 931  | 1.77 |     | 1.4 | 3085 | 980  | 2.12 |     | 1.4 | 3479 | 958  | 2.08 |
|           | 1.6 | 2559 | 987  | 1.88 |                 | 1.6 | 3040 | 962  | 1.83 |     | 1.6 | 2908 | 1013 | 2.19 |     | 1.6 | 3380 | 991  | 2.15 |
|           | 1.8 | 2366 | 1021 | 1.94 |                 | 1.8 | 2932 | 993  | 1.89 |     | 1.8 | -    | -    | -    |     | 1.8 | 3289 | 1023 | 2.22 |
|           | 2.0 | 2212 | 1048 | 2.00 |                 | 2.0 | 2815 | 1025 | 1.95 |     | 2.0 | -    | -    | -    |     | 2.0 | 3174 | 1051 | 2.28 |
| T3        | 0.2 | 3131 | 609  | 0.83 | T3              | 0.2 | 3133 | 601  | 0.82 | T8  | 0.2 | 4123 | 746  | 1.62 | T8  | 0.2 | 4124 | 729  | 1.58 |
|           | 0.4 | 2967 | 657  | 0.90 |                 | 0.4 | 3017 | 647  | 0.89 |     | 0.4 | 3966 | 787  | 1.71 |     | 0.4 | 4013 | 771  | 1.67 |
|           | 0.6 | 2774 | 709  | 0.97 |                 | 0.6 | 2858 | 699  | 0.96 |     | 0.6 | 3807 | 827  | 1.79 |     | 0.6 | 3905 | 811  | 1.76 |
|           | 0.8 | 2605 | 750  | 1.03 |                 | 0.8 | 2787 | 735  | 1.01 |     | 0.8 | 3628 | 867  | 1.88 |     | 0.8 | 3797 | 850  | 1.84 |
|           | 1.0 | -    | -    | -    |                 | 1.0 | 2630 | 787  | 1.08 |     | 1.0 | 3460 | 905  | 1.96 |     | 1.0 | 3689 | 886  | 1.92 |
|           | 1.2 | -    | -    | -    |                 | 1.2 | -    | -    | -    |     | 1.2 | 3275 | 942  | 2.0  |     | 1.2 | 3586 | 923  | 2.0  |
|           | 1.4 | -    | -    | -    |                 | 1.4 | -    | -    | -    |     | 1.4 | 3085 | 980  | 2.12 |     | 1.4 | 3479 | 958  | 2.08 |
|           | 1.6 | -    | -    | -    |                 | 1.6 | -    | -    | -    |     | 1.6 | 2908 | 1013 | 2.19 |     | 1.6 | 3380 | 991  | 2.15 |
|           | 1.8 | -    | -    | -    |                 | 1.8 | -    | -    | -    |     | 1.8 | -    | -    | -    |     | 1.8 | 3289 | 1023 | 2.22 |
|           | 2.0 | -    | -    | -    |                 | 2.0 | -    | -    | -    |     | 2.0 | -    | -    | -    |     | 2.0 | 3174 | 1051 | 2.28 |
| T4        | 0.2 | -    | -    | -    | T4              | 0.2 | 4246 | 843  | 2.08 | T9  | 0.2 | 4123 | 746  | 1.62 | T9  | 0.2 | 4124 | 729  | 1.58 |
|           | 0.4 | -    | -    | -    |                 | 0.4 | 4137 | 873  | 2.15 |     | 0.4 | 3966 | 787  | 1.71 |     | 0.4 | 4013 | 771  | 1.67 |
|           | 0.6 | 4136 | 866  | 2.13 |                 | 0.6 | 4028 | 904  | 2.23 |     | 0.6 | 3807 | 827  | 1.79 |     | 0.6 | 3905 | 811  | 1.76 |
|           | 0.8 | 3938 | 906  | 2.23 |                 | 0.8 | 3952 | 929  | 2.29 |     | 0.8 | 3628 | 867  | 1.88 |     | 0.8 | 3797 | 850  | 1.84 |
|           | 1.0 | 3756 | 941  | 2.32 |                 | 1.0 | 3867 | 956  | 2.36 |     | 1.0 | 3460 | 905  | 1.96 |     | 1.0 | 3689 | 886  | 1.92 |
|           | 1.2 | 3582 | 977  | 2.41 |                 | 1.2 | 3787 | 982  | 2.42 |     | 1.2 | 3275 | 942  | 2.0  |     | 1.2 | 3586 | 923  | 2.0  |
|           | 1.4 | 3379 | 1011 | 2.49 |                 | 1.4 | 3712 | 1008 | 2.48 |     | 1.4 | 3085 | 980  | 2.12 |     | 1.4 | 3479 | 958  | 2.08 |
|           | 1.6 | 3208 | 1043 | 2.57 |                 | 1.6 | 3643 | 1034 | 2.55 |     | 1.6 | 2908 | 1013 | 2.19 |     | 1.6 | 3380 | 991  | 2.15 |
|           | 1.8 | 3024 | 1081 | 2.66 |                 | 1.8 | 3603 | 1054 | 2.60 |     | 1.8 | -    | -    | -    |     | 1.8 | 3289 | 1023 | 2.22 |
|           | 2.0 | 2816 | 1099 | 2.71 |                 | 2.0 | 3500 | 1087 | 2.68 |     | 2.0 | -    | -    | -    |     | 2.0 | 3174 | 1051 | 2.28 |
| T5        | 0.2 | -    | -    | -    | T5              | 0.2 | -    | -    | -    | T10 | 0.2 | -    | -    | -    | T10 | 0.2 | -    | -    | -    |
|           | 0.4 | -    | -    | -    |                 | 0.4 | -    | -    | -    |     | 0.4 | -    | -    | -    |     | 0.4 | -    | -    | -    |
|           | 0.6 | -    | -    | -    |                 | 0.6 | -    | -    | -    |     | 0.6 | -    | -    | -    |     | 0.6 | -    | -    | -    |
|           | 0.8 | -    | -    | -    |                 | 0.8 | -    | -    | -    |     | 0.8 | -    | -    | -    |     | 0.8 | -    | -    | -    |
|           | 1.0 | 4124 | 975  | 2.71 |                 | 1.0 | -    | -    | -    |     | 1.0 | 4124 | 975  | 2.71 |     | 1.0 | -    | -    | -    |
|           | 1.2 | 3958 | 1008 | 2.81 |                 | 1.2 | 4251 | 984  | 2.74 |     | 1.2 | 3958 | 1008 | 2.81 |     | 1.2 | 4251 | 984  | 2.74 |
|           | 1.4 | 3757 | 1040 | 2.90 |                 | 1.4 | 4143 | 1018 | 2.84 |     | 1.4 | 3757 | 1040 | 2.90 |     | 1.4 | 4143 | 1018 | 2.84 |
|           | 1.6 | 3584 | 1071 | 2.98 |                 | 1.6 | 4050 | 1049 | 2.92 |     | 1.6 | 3584 | 1071 | 2.98 |     | 1.6 | 4050 | 1049 | 2.92 |
|           | 1.8 | 3395 | 1102 | 3.07 |                 | 1.8 | 3952 | 1081 | 3.01 |     | 1.8 | 3395 | 1102 | 3.07 |     | 1.8 | 3952 | 1081 | 3.01 |
|           | 2.0 | 3209 | 1130 | 3.15 |                 | 2.0 | 3847 | 1112 | 3.10 |     | 2.0 | 3209 | 1130 | 3.15 |     | 2.0 | 3847 | 1112 | 3.10 |

#### Note:

- Taps T1 and T2 are for first stage of cooling only. Taps T6 and T7 are for first stage of heating only. Refer to page 11 for speed tap selection.
- Shaded area are not recommended for cooling or heating operation.
- Airflow table includes resistance for base unit only with 2" clean air filters in place.  
Any Additional air resistance caused by factory or field installed options or accessories must be added to the ESP in order to select the correct speed tap.

# APPENDIX A BLOWER PERFORMANCE TABLES - AC

## 10 Ton Cooler

### Standard Static Direct Drive

Models: DHC1203D, DHC1204D, DHC1207D

| Down Flow |     |      |     |      | Horizontal Flow |     |      |     |      | Down Flow |     |      |     |      | Horizontal Flow |     |      |     |      |
|-----------|-----|------|-----|------|-----------------|-----|------|-----|------|-----------|-----|------|-----|------|-----------------|-----|------|-----|------|
| Speed Tap | ESP | CFM  | RPM | BHP  | Speed Tap       | ESP | CFM  | RPM | BHP  | Speed Tap | ESP | CFM  | RPM | BHP  | Speed Tap       | ESP | CFM  | RPM | BHP  |
| T1        | 0.2 | 2217 | 420 | 0.32 | T1              | 0.2 | 2246 | 427 | 0.32 | T6        | 0.2 | 3702 | 596 | 0.97 | T6              | 0.2 | 3704 | 604 | 0.99 |
|           | 0.4 | 2010 | 507 | 0.38 |                 | 0.4 | 1986 | 518 | 0.39 |           | 0.4 | 3587 | 644 | 1.05 |                 | 0.4 | 3577 | 658 | 1.07 |
|           | 0.6 | -    | -   | -    |                 | 0.6 | -    | -   | -    |           | 0.6 | 3402 | 702 | 1.14 |                 | 0.6 | 3388 | 720 | 1.17 |
|           | 0.8 | -    | -   | -    |                 | 0.8 | -    | -   | -    |           | 0.8 | 3280 | 751 | 1.23 |                 | 0.8 | 3250 | 770 | 1.26 |
| T2        | 0.2 | 3329 | 554 | 0.76 | T2              | 0.2 | 3318 | 567 | 0.78 | T7        | 0.2 | 4485 | 685 | 1.56 | T7              | 0.2 | 4436 | 705 | 1.60 |
|           | 0.4 | 3207 | 606 | 0.83 |                 | 0.4 | 3173 | 626 | 0.86 |           | 0.4 | 4357 | 732 | 1.66 |                 | 0.4 | 4307 | 751 | 1.71 |
|           | 0.6 | 3013 | 672 | 0.92 |                 | 0.6 | 2965 | 693 | 0.95 |           | 0.6 | 4225 | 778 | 1.77 |                 | 0.6 | 4196 | 790 | 1.80 |
|           | 0.8 | 2748 | 751 | 1.03 |                 | 0.8 | 2694 | 768 | 1.05 |           | 0.8 | 4113 | 822 | 1.87 |                 | 0.8 | 4040 | 847 | 1.93 |
| T3        | 0.2 | 3702 | 596 | 0.97 | T3              | 0.2 | 3704 | 604 | 0.99 | T8        | 0.2 | 3702 | 596 | 0.97 | T8              | 0.2 | 3704 | 604 | 0.99 |
|           | 0.4 | 3587 | 644 | 1.05 |                 | 0.4 | 3577 | 658 | 1.07 |           | 0.4 | 3587 | 644 | 1.05 |                 | 0.4 | 3577 | 658 | 1.07 |
|           | 0.6 | 3402 | 702 | 1.14 |                 | 0.6 | 3388 | 720 | 1.17 |           | 0.6 | 3402 | 702 | 1.14 |                 | 0.6 | 3388 | 720 | 1.17 |
|           | 0.8 | 3280 | 751 | 1.23 |                 | 0.8 | 3250 | 770 | 1.26 |           | 0.8 | 3280 | 751 | 1.23 |                 | 0.8 | 3250 | 770 | 1.26 |
| T4        | 0.2 | 4280 | 662 | 1.39 | T4              | 0.2 | 4220 | 681 | 1.43 | T9        | 0.2 | 4280 | 662 | 1.39 | T9              | 0.2 | 4220 | 681 | 1.43 |
|           | 0.4 | 4143 | 709 | 1.49 |                 | 0.4 | 4093 | 728 | 1.53 |           | 0.4 | 4143 | 709 | 1.49 |                 | 0.4 | 4093 | 728 | 1.53 |
|           | 0.6 | 4005 | 756 | 1.58 |                 | 0.6 | 3982 | 770 | 1.61 |           | 0.6 | 4005 | 756 | 1.58 |                 | 0.6 | 3982 | 770 | 1.61 |
|           | 0.8 | 3886 | 802 | 1.68 |                 | 0.8 | 3824 | 826 | 1.73 |           | 0.8 | 3886 | 802 | 1.68 |                 | 0.8 | 3824 | 826 | 1.73 |
| T5        | 0.2 | 4485 | 685 | 1.56 | T5              | 0.2 | 4436 | 705 | 1.60 | T10       | 0.2 | 4485 | 685 | 1.56 | T10             | 0.2 | 4436 | 705 | 1.60 |
|           | 0.4 | 4357 | 732 | 1.66 |                 | 0.4 | 4307 | 751 | 1.71 |           | 0.4 | 4357 | 732 | 1.66 |                 | 0.4 | 4307 | 751 | 1.71 |
|           | 0.6 | 4225 | 778 | 1.77 |                 | 0.6 | 4196 | 790 | 1.80 |           | 0.6 | 4225 | 778 | 1.77 |                 | 0.6 | 4196 | 790 | 1.80 |
|           | 0.8 | 4113 | 822 | 1.87 |                 | 0.8 | 4040 | 847 | 1.93 |           | 0.8 | 4113 | 822 | 1.87 |                 | 0.8 | 4040 | 847 | 1.93 |

## 10 Ton Cooler

### Medium Static Direct Drive

Models: DHC1203L, DHC1204L, DHC1207L

| Down Flow |     |      |     |      | Horizontal Flow |     |      |      |      | Down Flow |     |      |     |      | Horizontal Flow |     |      |      |      |
|-----------|-----|------|-----|------|-----------------|-----|------|------|------|-----------|-----|------|-----|------|-----------------|-----|------|------|------|
| Speed Tap | ESP | CFM  | RPM | BHP  | Speed Tap       | ESP | CFM  | RPM  | BHP  | Speed Tap | ESP | CFM  | RPM | BHP  | Speed Tap       | ESP | CFM  | RPM  | BHP  |
| T1        | 0.2 | 2217 | 420 | 0.32 | T1              | 0.2 | 2246 | 427  | 0.32 | T6        | 0.2 | 4485 | 685 | 1.56 | T6              | 0.2 | 4436 | 705  | 1.60 |
|           | 0.4 | 2010 | 507 | 0.38 |                 | 0.4 | 1986 | 518  | 0.39 |           | 0.4 | 4357 | 732 | 1.66 |                 | 0.4 | 4307 | 751  | 1.71 |
|           | 0.6 | -    | -   | -    |                 | 0.6 | -    | -    | -    |           | 0.6 | 4225 | 778 | 1.77 |                 | 0.6 | 4196 | 790  | 1.80 |
|           | 0.8 | -    | -   | -    |                 | 0.8 | -    | -    | -    |           | 0.8 | 4113 | 822 | 1.87 |                 | 0.8 | 4040 | 847  | 1.93 |
|           | 1.0 | -    | -   | -    |                 | 1.0 | -    | -    | -    |           | 1.0 | 4004 | 866 | 2.0  |                 | 1.0 | 3887 | 903  | 2.05 |
|           | 1.2 | -    | -   | -    |                 | 1.2 | -    | -    | -    |           | 1.2 | 3878 | 910 | 2.07 |                 | 1.2 | 3782 | 940  | 2.1  |
|           | 1.4 | -    | -   | -    |                 | 1.4 | -    | -    | -    |           | 1.4 | 3760 | 952 | 2.16 |                 | 1.4 | 3664 | 982  | 2.2  |
| T2        | 0.2 | 3833 | 610 | 1.05 | T2              | 0.2 | 3823 | 622  | 1.07 | T7        | 0.2 | 4794 | 723 | 1.85 | T7              | 0.2 | 4747 | 741  | 1.90 |
|           | 0.4 | 3731 | 656 | 1.13 |                 | 0.4 | 3713 | 667  | 1.15 |           | 0.4 | 4672 | 767 | 1.96 |                 | 0.4 | 4634 | 783  | 2.00 |
|           | 0.6 | 3554 | 714 | 1.23 |                 | 0.6 | 3532 | 723  | 1.25 |           | 0.6 | 4545 | 810 | 2.07 |                 | 0.6 | 4527 | 824  | 2.11 |
|           | 0.8 | 3434 | 763 | 1.32 |                 | 0.8 | 3398 | 775  | 1.34 |           | 0.8 | 4443 | 852 | 2.18 |                 | 0.8 | 4389 | 870  | 2.23 |
|           | 1.0 | 3271 | 818 | 1.41 |                 | 1.0 | 3223 | 833  | 1.44 |           | 1.0 | 4332 | 891 | 2.28 |                 | 1.0 | 4266 | 906  | 2.32 |
|           | 1.2 | 2968 | 894 | 1.54 |                 | 1.2 | 2917 | 909  | 1.57 |           | 1.2 | 4215 | 933 | 2.39 |                 | 1.2 | 4139 | 956  | 2.45 |
|           | 1.4 | 2655 | 971 | 1.68 |                 | 1.4 | 2598 | 988  | 1.71 |           | 1.4 | 4100 | 975 | 2.50 |                 | 1.4 | 3996 | 1010 | 2.59 |
| T3        | 0.2 | 3702 | 596 | 0.97 | T3              | 0.2 | 3704 | 604  | 0.99 | T8        | 0.2 | 4485 | 685 | 1.56 | T8              | 0.2 | 4436 | 705  | 1.60 |
|           | 0.4 | 3587 | 644 | 1.05 |                 | 0.4 | 3577 | 658  | 1.07 |           | 0.4 | 4357 | 732 | 1.66 |                 | 0.4 | 4307 | 751  | 1.71 |
|           | 0.6 | 3402 | 702 | 1.14 |                 | 0.6 | 3388 | 720  | 1.17 |           | 0.6 | 4225 | 778 | 1.77 |                 | 0.6 | 4196 | 790  | 1.80 |
|           | 0.8 | 3280 | 751 | 1.23 |                 | 0.8 | 3250 | 770  | 1.26 |           | 0.8 | 4113 | 822 | 1.87 |                 | 0.8 | 4040 | 847  | 1.93 |
|           | 1.0 | 3122 | 806 | 1.31 |                 | 1.0 | 3077 | 824  | 1.34 |           | 1.0 | 4004 | 866 | 2.0  |                 | 1.0 | 3887 | 903  | 2.05 |
|           | 1.2 | -    | -   | -    |                 | 1.2 | -    | -    | -    |           | 1.2 | 3878 | 910 | 2.07 |                 | 1.2 | 3782 | 940  | 2.1  |
|           | 1.4 | -    | -   | -    |                 | 1.4 | -    | -    | -    |           | 1.4 | 3760 | 952 | 2.16 |                 | 1.4 | 3664 | 982  | 2.2  |
| T4        | 0.2 | 4595 | 699 | 1.66 | T4              | 0.2 | 4546 | 717  | 1.71 | T9        | 0.2 | 4595 | 699 | 1.66 | T9              | 0.2 | 4546 | 717  | 1.71 |
|           | 0.4 | 4470 | 744 | 1.77 |                 | 0.4 | 4425 | 761  | 1.81 |           | 0.4 | 4470 | 744 | 1.77 |                 | 0.4 | 4425 | 761  | 1.81 |
|           | 0.6 | 4341 | 789 | 1.88 |                 | 0.6 | 4314 | 803  | 1.91 |           | 0.6 | 4341 | 789 | 1.88 |                 | 0.6 | 4314 | 803  | 1.91 |
|           | 0.8 | 4234 | 833 | 1.98 |                 | 0.8 | 4170 | 853  | 2.03 |           | 0.8 | 4234 | 833 | 1.98 |                 | 0.8 | 4170 | 853  | 2.03 |
|           | 1.0 | 4123 | 875 | 2.08 |                 | 1.0 | 4039 | 909  | 2.16 |           | 1.0 | 4123 | 875 | 2.08 |                 | 1.0 | 4039 | 909  | 2.16 |
|           | 1.2 | 4002 | 918 | 2.18 |                 | 1.2 | 3918 | 943  | 2.24 |           | 1.2 | 4002 | 918 | 2.18 |                 | 1.2 | 3918 | 943  | 2.24 |
|           | 1.4 | 3882 | 961 | 2.29 |                 | 1.4 | 3784 | 992  | 2.36 |           | 1.4 | 3882 | 961 | 2.29 |                 | 1.4 | 3784 | 992  | 2.36 |
| T5        | 0.2 | 4794 | 723 | 1.85 | T5              | 0.2 | 4747 | 741  | 1.90 | T10       | 0.2 | 4794 | 723 | 1.85 | T10             | 0.2 | 4747 | 741  | 1.90 |
|           | 0.4 | 4672 | 767 | 1.96 |                 | 0.4 | 4634 | 783  | 2.00 |           | 0.4 | 4672 | 767 | 1.96 |                 | 0.4 | 4634 | 783  | 2.00 |
|           | 0.6 | 4545 | 810 | 2.07 |                 | 0.6 | 4527 | 824  | 2.11 |           | 0.6 | 4545 | 810 | 2.07 |                 | 0.6 | 4527 | 824  | 2.11 |
|           | 0.8 | 4443 | 852 | 2.18 |                 | 0.8 | 4389 | 870  | 2.23 |           | 0.8 | 4443 | 852 | 2.18 |                 | 0.8 | 4389 | 870  | 2.23 |
|           | 1.0 | 4332 | 891 | 2.28 |                 | 1.0 | 4266 | 906  | 2.32 |           | 1.0 | 4332 | 891 | 2.28 |                 | 1.0 | 4266 | 906  | 2.32 |
|           | 1.2 | 4215 | 933 | 2.39 |                 | 1.2 | 4139 | 956  | 2.45 |           | 1.2 | 4215 | 933 | 2.39 |                 | 1.2 | 4139 | 956  | 2.45 |
|           | 1.4 | 4100 | 975 | 2.50 |                 | 1.4 | 3996 | 1010 | 2.59 |           | 1.4 | 4100 | 975 | 2.50 |                 | 1.4 | 3996 | 1010 | 2.59 |

#### Note:

- Taps T1 and T2 are for first stage of cooling only. Taps T6 and T7 are for first stage of heating only. Refer to page 11 for speed tap selection.
- Shaded area are not recommended for cooling or heating operation.
- Airflow table includes resistance for base unit only with 2" clean air filters in place. Any Additional air resistance caused by factory or field installed options or accessories must be added to the ESP in order to select the correct speed tap.

# APPENDIX A BLOWER PERFORMANCE TABLES - AC

## 10 Ton Cooler

### High Static Direct Drive

Models: DHC1203W, DHC1204W, DHC1207W

| Down Flow |     |      |      |      | Horizontal Flow |     |      |      |      | Down Flow |     |      |      |      | Horizontal Flow |     |      |      |      |
|-----------|-----|------|------|------|-----------------|-----|------|------|------|-----------|-----|------|------|------|-----------------|-----|------|------|------|
| Speed Tap | ESP | CFM  | RPM  | BHP  | Speed Tap       | ESP | CFM  | RPM  | BHP  | Speed Tap | ESP | CFM  | RPM  | BHP  | Speed Tap       | ESP | CFM  | RPM  | BHP  |
| T1        | 0.2 | 2217 | 420  | 0.32 | T1              | 0.2 | 2246 | 427  | 0.32 | T6        | 0.2 | 4794 | 723  | 1.85 | T6              | 0.2 | 4747 | 741  | 1.90 |
|           | 0.4 | 2010 | 507  | 0.38 |                 | 0.4 | 1986 | 518  | 0.39 |           | 0.4 | 4672 | 767  | 1.96 |                 | 0.4 | 4634 | 783  | 2.00 |
|           | 0.6 | -    | -    | -    |                 | 0.6 | -    | -    | -    |           | 0.6 | 4545 | 810  | 2.07 |                 | 0.6 | 4527 | 824  | 2.11 |
|           | 0.8 | -    | -    | -    |                 | 0.8 | -    | -    | -    |           | 0.8 | 4443 | 852  | 2.18 |                 | 0.8 | 4389 | 870  | 2.23 |
|           | 1.0 | -    | -    | -    |                 | 1.0 | -    | -    | -    |           | 1.0 | 4332 | 891  | 2.28 |                 | 1.0 | 4266 | 926  | 2.37 |
|           | 1.2 | -    | -    | -    |                 | 1.2 | -    | -    | -    |           | 1.2 | 4215 | 933  | 2.39 |                 | 1.2 | 4139 | 956  | 2.45 |
|           | 1.4 | -    | -    | -    |                 | 1.4 | -    | -    | -    |           | 1.4 | 4100 | 975  | 2.50 |                 | 1.4 | 3996 | 1010 | 2.59 |
|           | 1.6 | -    | -    | -    |                 | 1.6 | -    | -    | -    |           | 1.6 | 3987 | 1011 | 2.59 |                 | 1.6 | 3885 | 1042 | 2.67 |
|           | 1.8 | -    | -    | -    |                 | 1.8 | -    | -    | -    |           | 1.8 | 3894 | 1048 | 2.68 |                 | 1.8 | 3762 | 1083 | 2.77 |
| T2        | 2.0 | -    | -    | -    | T2              | 2.0 | -    | -    | -    | T7        | 2.0 | 3773 | 1075 | 2.75 | T7              | 2.0 | 3659 | 1112 | 2.85 |
|           | 0.2 | 4204 | 653  | 1.32 |                 | 0.2 | 4141 | 671  | 1.36 |           | 0.2 | -    | -    | -    |                 | 0.2 | 4987 | 771  | 2.15 |
|           | 0.4 | 4062 | 702  | 1.42 |                 | 0.4 | 4026 | 717  | 1.45 |           | 0.4 | 4903 | 793  | 2.21 |                 | 0.4 | 4865 | 814  | 2.27 |
|           | 0.6 | 3926 | 748  | 1.51 |                 | 0.6 | 3890 | 764  | 1.55 |           | 0.6 | 4772 | 838  | 2.33 |                 | 0.6 | 4771 | 846  | 2.36 |
|           | 0.8 | 3806 | 796  | 1.61 |                 | 0.8 | 3745 | 820  | 1.66 |           | 0.8 | 4671 | 875  | 2.44 |                 | 0.8 | 4604 | 906  | 2.52 |
|           | 1.0 | 3694 | 842  | 1.70 |                 | 1.0 | 3581 | 878  | 1.78 |           | 1.0 | 4564 | 913  | 2.54 |                 | 1.0 | 4448 | 959  | 2.67 |
|           | 1.2 | 3584 | 891  | 1.80 |                 | 1.2 | 3438 | 936  | 1.89 |           | 1.2 | 4448 | 954  | 2.66 |                 | 1.2 | 4356 | 990  | 2.76 |
|           | 1.4 | 3484 | 938  | 1.90 |                 | 1.4 | 3270 | 980  | 1.98 |           | 1.4 | 4348 | 990  | 2.76 |                 | 1.4 | 4235 | 1030 | 2.87 |
|           | 1.6 | 3082 | 1022 | 2.07 |                 | 1.6 | 2965 | 1051 | 2.13 |           | 1.6 | 4233 | 1030 | 2.87 |                 | 1.6 | 4121 | 1066 | 2.97 |
| T3        | 1.8 | 2824 | 1083 | 2.19 | T3              | 1.8 | 2752 | 1096 | 2.22 | T8        | 1.8 | 4121 | 1070 | 2.98 | T8              | 1.8 | 4022 | 1100 | 3.06 |
|           | 2.0 | 2658 | 1111 | 2.25 |                 | 2.0 | 2646 | 1123 | 2.27 |           | 2.0 | 4030 | 1100 | 3.06 |                 | 2.0 | 3896 | 1134 | 3.16 |
|           | 0.2 | 3702 | 596  | 0.97 |                 | 0.2 | 3704 | 604  | 0.99 |           | 0.2 | 4794 | 723  | 1.85 |                 | 0.2 | 4747 | 741  | 1.90 |
|           | 0.4 | 3587 | 644  | 1.05 |                 | 0.4 | 3577 | 658  | 1.07 |           | 0.4 | 4672 | 767  | 1.96 |                 | 0.4 | 4634 | 783  | 2.00 |
|           | 0.6 | 3402 | 702  | 1.14 |                 | 0.6 | 3388 | 720  | 1.17 |           | 0.6 | 4545 | 810  | 2.07 |                 | 0.6 | 4527 | 824  | 2.11 |
|           | 0.8 | 3280 | 751  | 1.23 |                 | 0.8 | 3250 | 770  | 1.26 |           | 0.8 | 4443 | 852  | 2.18 |                 | 0.8 | 4389 | 870  | 2.23 |
|           | 1.0 | 3122 | 806  | 1.31 |                 | 1.0 | 3077 | 824  | 1.34 |           | 1.0 | 4332 | 891  | 2.28 |                 | 1.0 | 4266 | 926  | 2.37 |
|           | 1.2 | -    | -    | -    |                 | 1.2 | -    | -    | -    |           | 1.2 | 4215 | 933  | 2.39 |                 | 1.2 | 4139 | 956  | 2.45 |
|           | 1.4 | -    | -    | -    |                 | 1.4 | -    | -    | -    |           | 1.4 | 4100 | 975  | 2.50 |                 | 1.4 | 3996 | 1010 | 2.59 |
| T4        | 1.6 | -    | -    | -    | T4              | 1.6 | -    | -    | -    | T9        | 1.6 | 3987 | 1011 | 2.59 | T9              | 1.6 | 3885 | 1042 | 2.67 |
|           | 1.8 | -    | -    | -    |                 | 1.8 | -    | -    | -    |           | 1.8 | 3894 | 1048 | 2.68 |                 | 1.8 | 3762 | 1083 | 2.77 |
|           | 2.0 | -    | -    | -    |                 | 2.0 | -    | -    | -    |           | 2.0 | 3773 | 1075 | 2.75 |                 | 2.0 | 3659 | 1112 | 2.85 |
|           | 0.2 | 4851 | 729  | 1.91 |                 | 0.2 | 4807 | 748  | 1.96 |           | 0.2 | 4851 | 729  | 1.91 |                 | 0.2 | 4807 | 748  | 1.96 |
|           | 0.4 | 4729 | 773  | 2.02 |                 | 0.4 | 4688 | 791  | 2.07 |           | 0.4 | 4729 | 773  | 2.02 |                 | 0.4 | 4688 | 791  | 2.07 |
|           | 0.6 | 4600 | 817  | 2.14 |                 | 0.6 | 4585 | 829  | 2.17 |           | 0.6 | 4600 | 817  | 2.14 |                 | 0.6 | 4585 | 829  | 2.17 |
|           | 0.8 | 4498 | 858  | 2.25 |                 | 0.8 | 4435 | 878  | 2.30 |           | 0.8 | 4498 | 858  | 2.25 |                 | 0.8 | 4435 | 878  | 2.30 |
|           | 1.0 | 4390 | 897  | 2.35 |                 | 1.0 | 4325 | 936  | 2.45 |           | 1.0 | 4390 | 897  | 2.35 |                 | 1.0 | 4325 | 936  | 2.45 |
|           | 1.2 | 4272 | 939  | 2.46 |                 | 1.2 | 4203 | 964  | 2.52 |           | 1.2 | 4272 | 939  | 2.46 |                 | 1.2 | 4203 | 964  | 2.52 |
| T5        | 1.4 | 4161 | 979  | 2.56 | T5              | 1.4 | 4054 | 1015 | 2.66 | T10       | 1.4 | 4161 | 979  | 2.56 | T10             | 1.4 | 4054 | 1015 | 2.66 |
|           | 1.6 | 4075 | 1015 | 2.66 |                 | 1.6 | 3972 | 1042 | 2.73 |           | 1.6 | 4075 | 1015 | 2.66 |                 | 1.6 | 3972 | 1042 | 2.73 |
|           | 1.8 | 3990 | 1049 | 2.75 |                 | 1.8 | 3862 | 1076 | 2.82 |           | 1.8 | 3990 | 1049 | 2.75 |                 | 1.8 | 3862 | 1076 | 2.82 |
|           | 2.0 | 3874 | 1073 | 2.81 |                 | 2.0 | 3754 | 1105 | 2.89 |           | 2.0 | 3874 | 1073 | 2.81 |                 | 2.0 | 3754 | 1105 | 2.89 |
|           | 0.2 | -    | -    | -    |                 | 0.2 | 4987 | 771  | 2.15 |           | 0.2 | -    | -    | -    |                 | 0.2 | 4987 | 771  | 2.15 |
|           | 0.4 | 4903 | 793  | 2.21 |                 | 0.4 | 4865 | 814  | 2.27 |           | 0.4 | 4903 | 793  | 2.21 |                 | 0.4 | 4865 | 814  | 2.27 |
|           | 0.6 | 4772 | 838  | 2.33 |                 | 0.6 | 4771 | 846  | 2.36 |           | 0.6 | 4772 | 838  | 2.33 |                 | 0.6 | 4771 | 846  | 2.36 |
|           | 0.8 | 4671 | 875  | 2.44 |                 | 0.8 | 4604 | 906  | 2.52 |           | 0.8 | 4671 | 875  | 2.44 |                 | 0.8 | 4604 | 906  | 2.52 |
|           | 1.0 | 4564 | 913  | 2.54 |                 | 1.0 | 4448 | 959  | 2.67 |           | 1.0 | 4564 | 913  | 2.54 |                 | 1.0 | 4448 | 959  | 2.67 |
| T6        | 1.2 | 4448 | 954  | 2.66 | T6              | 1.2 | 4356 | 990  | 2.76 | T7        | 1.2 | 4448 | 954  | 2.66 | T7              | 1.2 | 4356 | 990  | 2.76 |
|           | 1.4 | 4348 | 990  | 2.76 |                 | 1.4 | 4235 | 1030 | 2.87 |           | 1.4 | 4348 | 990  | 2.76 |                 | 1.4 | 4235 | 1030 | 2.87 |
|           | 1.6 | 4233 | 1030 | 2.87 |                 | 1.6 | 4121 | 1066 | 2.97 |           | 1.6 | 4233 | 1030 | 2.87 |                 | 1.6 | 4121 | 1066 | 2.97 |
|           | 1.8 | 4121 | 1070 | 2.98 |                 | 1.8 | 4022 | 1100 | 3.06 |           | 1.8 | 4121 | 1070 | 2.98 |                 | 1.8 | 4022 | 1100 | 3.06 |
|           | 2.0 | 4030 | 1100 | 3.06 |                 | 2.0 | 3896 | 1134 | 3.16 |           | 2.0 | 4030 | 1100 | 3.06 |                 | 2.0 | 3896 | 1134 | 3.16 |
|           | 0.2 | -    | -    | -    |                 | 0.2 | -    | -    | -    |           | 0.2 | -    | -    | -    |                 | 0.2 | -    | -    | -    |
|           | 0.4 | -    | -    | -    |                 | 0.4 | -    | -    | -    |           | 0.4 | -    | -    | -    |                 | 0.4 | -    | -    | -    |
|           | 0.6 | -    | -    | -    |                 | 0.6 | -    | -    | -    |           | 0.6 | -    | -    | -    |                 | 0.6 | -    | -    | -    |
|           | 0.8 | -    | -    | -    |                 | 0.8 | -    | -    | -    |           | 0.8 | -    | -    | -    |                 | 0.8 | -    | -    | -    |

#### Note:

- Taps T1 and T2 are for first stage of cooling only. Taps T6 and T7 are for first stage of heating only. Refer to page 11 for speed tap selection.
- Shaded area are not recommended for cooling or heating operation.
- Airflow table includes resistance for base unit only with 2" clean air filters in place. Any Additional air resistance caused by factory or field installed options or accessories must be added to the ESP in order to select the correct speed tap.

## APPENDIX A BLOWER PERFORMANCE TABLES - AC

12.5 Ton Cooler

Standard Static Direct Drive

Models: DHC1503D, DHC1504D, DHC1507D

| Down Flow |     |      |     |      | Horizontal Flow |     |      |     |      |
|-----------|-----|------|-----|------|-----------------|-----|------|-----|------|
| Speed Tap | ESP | CFM  | RPM | BHP  | Speed Tap       | ESP | CFM  | RPM | BHP  |
| T1        | 0.2 | 2820 | 480 | 0.41 | T1              | 0.2 | 2620 | 509 | 0.44 |
|           | 0.4 | -    | -   | -    |                 | 0.4 | -    | -   | -    |
|           | 0.6 | -    | -   | -    |                 | 0.6 | -    | -   | -    |
|           | 0.8 | -    | -   | -    |                 | 0.8 | -    | -   | -    |
| T2        | 0.2 | 3608 | 530 | 0.66 | T2              | 0.2 | 3256 | 567 | 0.71 |
|           | 0.4 | 3304 | 619 | 0.77 |                 | 0.4 | 3076 | 640 | 0.80 |
|           | 0.6 | 2987 | 710 | 0.89 |                 | 0.6 | 2960 | 682 | 0.85 |
|           | 0.8 | 2559 | 808 | 1.01 |                 | 0.8 | 2616 | 766 | 0.96 |
| T3        | 0.2 | 4415 | 602 | 1.15 | T3              | 0.2 | 4179 | 689 | 1.32 |
|           | 0.4 | 4241 | 672 | 1.29 |                 | 0.4 | 4042 | 731 | 1.40 |
|           | 0.6 | 4013 | 758 | 1.45 |                 | 0.6 | 3895 | 782 | 1.50 |
|           | 0.8 | 3811 | 825 | 1.58 |                 | 0.8 | 3754 | 822 | 1.58 |
| T4        | 0.2 | 5156 | 650 | 1.62 | T4              | 0.2 | 4840 | 747 | 1.86 |
|           | 0.4 | 4977 | 713 | 1.78 |                 | 0.4 | 4688 | 805 | 2.00 |
|           | 0.6 | 4785 | 780 | 1.94 |                 | 0.6 | 4591 | 841 | 2.09 |
|           | 0.8 | 4580 | 856 | 2.13 |                 | 0.8 | 4461 | 885 | 2.20 |
| T5        | 0.2 | 5420 | 667 | 1.84 | T5              | 0.2 | 5098 | 774 | 2.13 |
|           | 0.4 | 5273 | 730 | 2.01 |                 | 0.4 | 4936 | 831 | 2.29 |
|           | 0.6 | 5092 | 804 | 2.21 |                 | 0.6 | 4835 | 867 | 2.39 |
|           | 0.8 | 4863 | 865 | 2.38 |                 | 0.8 | 4725 | 908 | 2.50 |
| T6        | 0.2 | 4415 | 602 | 1.15 | T6              | 0.2 | 4179 | 689 | 1.32 |
|           | 0.4 | 4241 | 672 | 1.29 |                 | 0.4 | 4042 | 731 | 1.40 |
|           | 0.6 | 4013 | 758 | 1.45 |                 | 0.6 | 3895 | 782 | 1.50 |
|           | 0.8 | 3811 | 825 | 1.58 |                 | 0.8 | 3754 | 822 | 1.58 |
| T7        | 0.2 | 4914 | 644 | 1.47 | T7              | 0.2 | 4614 | 734 | 1.68 |
|           | 0.4 | 4736 | 705 | 1.61 |                 | 0.4 | 4501 | 781 | 1.79 |
|           | 0.6 | 4509 | 766 | 1.75 |                 | 0.6 | 4389 | 820 | 1.87 |
|           | 0.8 | 4284 | 846 | 1.93 |                 | 0.8 | 4262 | 865 | 1.98 |
| T8        | 0.2 | 4415 | 602 | 1.15 | T8              | 0.2 | 4179 | 689 | 1.32 |
|           | 0.4 | 4241 | 672 | 1.29 |                 | 0.4 | 4042 | 731 | 1.40 |
|           | 0.6 | 4013 | 758 | 1.45 |                 | 0.6 | 3895 | 782 | 1.50 |
|           | 0.8 | 3811 | 825 | 1.58 |                 | 0.8 | 3754 | 822 | 1.58 |
| T9        | 0.2 | 4623 | 623 | 1.30 | T9              | 0.2 | 4418 | 715 | 1.50 |
|           | 0.4 | 4457 | 699 | 1.46 |                 | 0.4 | 4294 | 755 | 1.58 |
|           | 0.6 | 4242 | 772 | 1.62 |                 | 0.6 | 4170 | 800 | 1.68 |
|           | 0.8 | 4029 | 837 | 1.75 |                 | 0.8 | 4026 | 841 | 1.76 |
| T10       | 0.2 | 4914 | 644 | 1.47 | T10             | 0.2 | 4614 | 734 | 1.68 |
|           | 0.4 | 4736 | 705 | 1.61 |                 | 0.4 | 4501 | 781 | 1.79 |
|           | 0.6 | 4509 | 766 | 1.75 |                 | 0.6 | 4389 | 820 | 1.87 |
|           | 0.8 | 4284 | 846 | 1.93 |                 | 0.8 | 4262 | 865 | 1.98 |

### Note:

- Taps T1 and T2 are for first stage of cooling only. Taps T6 and T7 are for first stage of heating only. Refer to page 11 for speed tap selection.
- Shaded area are not recommended for cooling or heating operation.
- Airflow table includes resistance for base unit only with 2" clean air filters in place. Any Additional air resistance caused by factory or field installed options or accessories must be added to the ESP in order to select the correct speed tap.

12.5 Ton Cooler

Medium Static Direct Drive

Models: DHC1503L, DHC1504L, DHC1507L

| Down Flow |     |      |      |      | Horizontal Flow |     |      |     |      |
|-----------|-----|------|------|------|-----------------|-----|------|-----|------|
| Speed Tap | ESP | CFM  | RPM  | BHP  | Speed Tap       | ESP | CFM  | RPM | BHP  |
| T1        | 0.2 | 2820 | 480  | 0.41 | T1              | 0.2 | 2620 | 509 | 0.44 |
|           | 0.4 | -    | -    | -    |                 | 0.4 | -    | -   | -    |
|           | 0.6 | -    | -    | -    |                 | 0.6 | -    | -   | -    |
|           | 0.8 | -    | -    | -    |                 | 0.8 | -    | -   | -    |
|           | 1.0 | -    | -    | -    |                 | 1.0 | -    | -   | -    |
|           | 1.2 | -    | -    | -    |                 | 1.2 | -    | -   | -    |
| T2        | 0.2 | 4298 | 596  | 1.09 | T2              | 0.2 | 4044 | 674 | 1.23 |
|           | 0.4 | 4122 | 663  | 1.21 |                 | 0.4 | 3891 | 719 | 1.32 |
|           | 0.6 | 3899 | 755  | 1.38 |                 | 0.6 | 3736 | 773 | 1.41 |
|           | 0.8 | 3711 | 820  | 1.50 |                 | 0.8 | 3589 | 813 | 1.49 |
|           | 1.0 | 3488 | 886  | 1.62 |                 | 1.0 | 3448 | 850 | 1.56 |
|           | 1.2 | 2970 | 1010 | 1.85 |                 | 1.2 | 3310 | 891 | 1.63 |
| T3        | 0.2 | 4415 | 602  | 1.15 | T3              | 0.2 | 4179 | 689 | 1.32 |
|           | 0.4 | 4241 | 672  | 1.29 |                 | 0.4 | 4042 | 731 | 1.40 |
|           | 0.6 | 4013 | 758  | 1.45 |                 | 0.6 | 3895 | 782 | 1.50 |
|           | 0.8 | 3811 | 825  | 1.58 |                 | 0.8 | 3754 | 822 | 1.58 |
|           | 1.0 | -    | -    | -    |                 | 1.0 | -    | -   | -    |
|           | 1.2 | -    | -    | -    |                 | 1.2 | -    | -   | -    |
| T4        | 0.2 | 5156 | 650  | 1.62 | T4              | 0.2 | 4840 | 747 | 1.86 |
|           | 0.4 | 4977 | 713  | 1.78 |                 | 0.4 | 4688 | 805 | 2.00 |
|           | 0.6 | 4785 | 780  | 1.94 |                 | 0.6 | 4591 | 841 | 2.09 |
|           | 0.8 | 4580 | 856  | 2.13 |                 | 0.8 | 4461 | 885 | 2.20 |
|           | 1.0 | 4342 | 921  | 2.29 |                 | 1.0 | 4342 | 925 | 2.30 |
|           | 1.2 | 4113 | 981  | 2.44 |                 | 1.2 | 4235 | 955 | 2.38 |
| T5        | 0.2 | 5420 | 667  | 1.84 | T5              | 0.2 | 5098 | 774 | 2.13 |
|           | 0.4 | 5273 | 730  | 2.01 |                 | 0.4 | 4936 | 831 | 2.29 |
|           | 0.6 | 5092 | 804  | 2.21 |                 | 0.6 | 4835 | 867 | 2.39 |
|           | 0.8 | 4863 | 865  | 2.38 |                 | 0.8 | 4725 | 908 | 2.50 |
|           | 1.0 | 4651 | 936  | 2.58 |                 | 1.0 | 4607 | 954 | 2.63 |
|           | 1.2 | 4429 | 1001 | 2.76 |                 | 1.2 | 4489 | 983 | 2.71 |
| T6        | 0.2 | 4914 | 644  | 1.47 | T6              | 0.2 | 4614 | 734 | 1.68 |
|           | 0.4 | 4736 | 705  | 1.61 |                 | 0.4 | 4501 | 781 | 1.79 |
|           | 0.6 | 4509 | 766  | 1.75 |                 | 0.6 | 4389 | 820 | 1.87 |
|           | 0.8 | 4284 | 846  | 1.93 |                 | 0.8 | 4262 | 865 | 1.98 |
|           | 1.0 | 4076 | 915  | 2.1  |                 | 1.0 | 4139 | 903 | 2.06 |
|           | 1.2 | 3843 | 970  | 2.22 |                 | 1.2 | 4017 | 938 | 2.1  |
| T7        | 0.2 | 5420 | 667  | 1.84 | T7              | 0.2 | 5098 | 774 | 2.13 |
|           | 0.4 | 5273 | 730  | 2.01 |                 | 0.4 | 4936 | 831 | 2.29 |
|           | 0.6 | 5092 | 804  | 2.21 |                 | 0.6 | 4835 | 867 | 2.39 |
|           | 0.8 | 4863 | 865  | 2.38 |                 | 0.8 | 4725 | 908 | 2.50 |
|           | 1.0 | 4651 | 936  | 2.58 |                 | 1.0 | 4607 | 954 | 2.63 |
|           | 1.2 | 4429 | 1001 | 2.76 |                 | 1.2 | 4489 | 983 | 2.71 |
| T8        | 0.2 | 4914 | 644  | 1.47 | T8              | 0.2 | 4614 | 734 | 1.68 |
|           | 0.4 | 4736 | 705  | 1.61 |                 | 0.4 | 4501 | 781 | 1.79 |
|           | 0.6 | 4509 | 766  | 1.75 |                 | 0.6 | 4389 | 820 | 1.87 |
|           | 0.8 | 4284 | 846  | 1.93 |                 | 0.8 | 4262 | 865 | 1.98 |
|           | 1.0 | 4076 | 915  | 2.1  |                 | 1.0 | 4139 | 903 | 2.06 |
|           | 1.2 | 3843 | 970  | 2.22 |                 | 1.2 | 4017 | 938 | 2.1  |
| T9        | 0.2 | 5156 | 650  | 1.62 | T9              | 0.2 | 4840 | 747 | 1.86 |
|           | 0.4 | 4977 | 713  | 1.78 |                 | 0.4 | 4688 | 805 | 2.00 |
|           | 0.6 | 4785 | 780  | 1.94 |                 | 0.6 | 4591 | 841 | 2.09 |
|           | 0.8 | 4580 | 856  | 2.13 |                 | 0.8 | 4461 | 885 | 2.20 |
|           | 1.0 | 4342 | 921  | 2.29 |                 | 1.0 | 4342 | 925 | 2.30 |
|           | 1.2 | 4113 | 981  | 2.44 |                 | 1.2 | 4235 | 955 | 2.38 |
| T10       | 0.2 | 5420 | 667  | 1.84 | T10             | 0.2 | 5098 | 774 | 2.13 |
|           | 0.4 | 5273 | 730  | 2.01 |                 | 0.4 | 4936 | 831 | 2.29 |
|           | 0.6 | 5092 | 804  | 2.21 |                 | 0.6 | 4835 | 867 | 2.39 |
|           | 0.8 | 4863 | 865  | 2.38 |                 | 0.8 | 4725 | 908 | 2.50 |
|           | 1.0 | 4651 | 936  | 2.58 |                 | 1.0 | 4607 | 954 | 2.63 |
|           | 1.2 | 4429 | 1001 | 2.76 |                 | 1.2 | 4489 | 983 | 2.71 |

# APPENDIX A BLOWER PERFORMANCE TABLES - AC

## 12.5 Ton Cooler

### High Static Direct Drive

Models: DHC1503W, DHC1504W, DHC1507W

| Down Flow |     |      |      |      | Horizontal Flow |     |      |      |      | Down Flow |     |      |      |      | Horizontal Flow |     |      |      |      |
|-----------|-----|------|------|------|-----------------|-----|------|------|------|-----------|-----|------|------|------|-----------------|-----|------|------|------|
| Speed Tap | ESP | CFM  | RPM  | BHP  | Speed Tap       | ESP | CFM  | RPM  | BHP  | Speed Tap | ESP | CFM  | RPM  | BHP  | Speed Tap       | ESP | CFM  | RPM  | BHP  |
| T1        | 0.2 | 2504 | 531  | 0.46 | T1              | 0.2 | 2512 | 508  | 0.44 | T6        | 0.2 | 4891 | 868  | 2.42 | T6              | 0.2 | 4970 | 803  | 2.24 |
|           | 0.4 | -    | -    | -    |                 | 0.4 | -    | -    | -    |           | 0.4 | 4809 | 902  | 2.51 |                 | 0.4 | 4889 | 840  | 2.34 |
|           | 0.6 | -    | -    | -    |                 | 0.6 | -    | -    | -    |           | 0.6 | 4718 | 939  | 2.62 |                 | 0.6 | 4799 | 877  | 2.44 |
|           | 0.8 | -    | -    | -    |                 | 0.8 | -    | -    | -    |           | 0.8 | 4628 | 972  | 2.71 |                 | 0.8 | 4702 | 921  | 2.57 |
|           | 1.0 | -    | -    | -    |                 | 1.0 | -    | -    | -    |           | 1.0 | 4531 | 1006 | 2.80 |                 | 1.0 | 4614 | 953  | 2.65 |
|           | 1.2 | -    | -    | -    |                 | 1.2 | -    | -    | -    |           | 1.2 | 4419 | 1047 | 2.92 |                 | 1.2 | 4492 | 1001 | 2.79 |
|           | 1.4 | -    | -    | -    |                 | 1.4 | -    | -    | -    |           | 1.4 | 4304 | 1086 | 3.03 |                 | 1.4 | 4364 | 1053 | 2.93 |
|           | 1.6 | -    | -    | -    |                 | 1.6 | -    | -    | -    |           | 1.6 | 4186 | 1123 | 3.13 |                 | 1.6 | 4259 | 1081 | 3.01 |
|           | 1.8 | -    | -    | -    |                 | 1.8 | -    | -    | -    |           | 1.8 | 4064 | 1157 | 3.22 |                 | 1.8 | 4129 | 1122 | 3.13 |
| T2        | 0.2 | 4164 | 759  | 1.56 | T2              | 0.2 | 4186 | 706  | 1.45 | T7        | 0.2 | 5401 | 945  | 3.38 | T7              | 0.2 | 5489 | 873  | 3.12 |
|           | 0.4 | 4107 | 794  | 1.64 |                 | 0.4 | 4079 | 753  | 1.55 |           | 0.4 | 5314 | 977  | 3.49 |                 | 0.4 | 5410 | 904  | 3.23 |
|           | 0.6 | 3980 | 840  | 1.73 |                 | 0.6 | 3981 | 796  | 1.64 |           | 0.6 | 5214 | 1011 | 3.61 |                 | 0.6 | 5325 | 937  | 3.35 |
|           | 0.8 | 3882 | 882  | 1.82 |                 | 0.8 | 3854 | 847  | 1.74 |           | 0.8 | 5142 | 1041 | 3.72 |                 | 0.8 | 5235 | 970  | 3.46 |
|           | 1.0 | 3738 | 931  | 1.92 |                 | 1.0 | 3727 | 897  | 1.85 |           | 1.0 | 5050 | 1073 | 3.83 |                 | 1.0 | 5136 | 1004 | 3.59 |
|           | 1.2 | 3438 | 1005 | 2.07 |                 | 1.2 | 3627 | 938  | 1.93 |           | 1.2 | 4952 | 1107 | 3.95 |                 | 1.2 | 5038 | 1043 | 3.73 |
|           | 1.4 | 3189 | 1069 | 2.20 |                 | 1.4 | 3517 | 982  | 2.02 |           | 1.4 | 4863 | 1139 | 4.07 |                 | 1.4 | 4936 | 1083 | 3.87 |
|           | 1.6 | 3026 | 1108 | 2.28 |                 | 1.6 | 3262 | 1043 | 2.15 |           | 1.6 | 4742 | 1175 | 4.20 |                 | 1.6 | 4819 | 1123 | 4.01 |
|           | 1.8 | 2930 | 1129 | 2.33 |                 | 1.8 | 2915 | 1118 | 2.30 |           | 1.8 | 4627 | 1210 | 4.32 |                 | 1.8 | 4699 | 1166 | 4.16 |
| T3        | 0.2 | 4164 | 759  | 1.56 | T3              | 0.2 | 4186 | 706  | 1.45 | T8        | 0.2 | 4891 | 868  | 2.42 | T8              | 0.2 | 4970 | 803  | 2.24 |
|           | 0.4 | 4107 | 794  | 1.64 |                 | 0.4 | 4079 | 753  | 1.55 |           | 0.4 | 4809 | 902  | 2.51 |                 | 0.4 | 4889 | 840  | 2.34 |
|           | 0.6 | 3980 | 840  | 1.73 |                 | 0.6 | 3981 | 796  | 1.64 |           | 0.6 | 4718 | 939  | 2.62 |                 | 0.6 | 4799 | 877  | 2.44 |
|           | 0.8 | 3882 | 882  | 1.82 |                 | 0.8 | 3854 | 847  | 1.74 |           | 0.8 | 4628 | 972  | 2.71 |                 | 0.8 | 4702 | 921  | 2.57 |
|           | 1.0 | -    | -    | -    |                 | 1.0 | -    | -    | -    |           | 1.0 | 4531 | 1006 | 2.80 |                 | 1.0 | 4614 | 953  | 2.65 |
|           | 1.2 | -    | -    | -    |                 | 1.2 | -    | -    | -    |           | 1.2 | 4419 | 1047 | 2.92 |                 | 1.2 | 4492 | 1001 | 2.79 |
|           | 1.4 | -    | -    | -    |                 | 1.4 | -    | -    | -    |           | 1.4 | 4304 | 1086 | 3.03 |                 | 1.4 | 4364 | 1053 | 2.93 |
|           | 1.6 | -    | -    | -    |                 | 1.6 | -    | -    | -    |           | 1.6 | 4186 | 1123 | 3.13 |                 | 1.6 | 4259 | 1081 | 3.01 |
|           | 1.8 | -    | -    | -    |                 | 1.8 | -    | -    | -    |           | 1.8 | 4064 | 1157 | 3.22 |                 | 1.8 | 4129 | 1122 | 3.13 |
| T4        | 0.2 | 5401 | 945  | 3.38 | T4              | 0.2 | 5489 | 873  | 3.12 | T9        | 0.2 | 5197 | 915  | 3.05 | T9              | 0.2 | 5282 | 846  | 2.82 |
|           | 0.4 | 5314 | 977  | 3.49 |                 | 0.4 | 5410 | 904  | 3.23 |           | 0.4 | 5109 | 947  | 3.16 |                 | 0.4 | 5199 | 847  | 2.82 |
|           | 0.6 | 5214 | 1011 | 3.61 |                 | 0.6 | 5325 | 937  | 3.35 |           | 0.6 | 5007 | 980  | 3.27 |                 | 0.6 | 5113 | 870  | 2.90 |
|           | 0.8 | 5142 | 1041 | 3.72 |                 | 0.8 | 5235 | 970  | 3.46 |           | 0.8 | 4933 | 1014 | 3.38 |                 | 0.8 | 5017 | 915  | 3.05 |
|           | 1.0 | 5050 | 1073 | 3.83 |                 | 1.0 | 5136 | 1004 | 3.59 |           | 1.0 | 4845 | 1047 | 3.49 |                 | 1.0 | 4913 | 982  | 3.27 |
|           | 1.2 | 4952 | 1107 | 3.95 |                 | 1.2 | 5038 | 1043 | 3.73 |           | 1.2 | 4737 | 1083 | 3.61 |                 | 1.2 | 4817 | 1026 | 3.42 |
|           | 1.4 | 4863 | 1139 | 4.07 |                 | 1.4 | 4936 | 1083 | 3.87 |           | 1.4 | 4638 | 1118 | 3.73 |                 | 1.4 | 4716 | 1067 | 3.56 |
|           | 1.6 | 4742 | 1175 | 4.20 |                 | 1.6 | 4819 | 1123 | 4.01 |           | 1.6 | 4520 | 1153 | 3.84 |                 | 1.6 | 4598 | 1108 | 3.69 |
|           | 1.8 | 4627 | 1210 | 4.32 |                 | 1.8 | 4699 | 1166 | 4.16 |           | 1.8 | 4398 | 1191 | 3.97 |                 | 1.8 | 4479 | 1147 | 3.82 |
| T5        | 0.2 | 5671 | 990  | 3.95 | T5              | 0.2 | 5770 | 911  | 3.63 | T10       | 0.2 | 5401 | 945  | 3.38 | T10             | 0.2 | 5489 | 873  | 3.12 |
|           | 0.4 | 5580 | 1019 | 4.06 |                 | 0.4 | 5685 | 940  | 3.75 |           | 0.4 | 5314 | 977  | 3.49 |                 | 0.4 | 5410 | 904  | 3.23 |
|           | 0.6 | 5495 | 1049 | 4.18 |                 | 0.6 | 5605 | 971  | 3.87 |           | 0.6 | 5214 | 1011 | 3.61 |                 | 0.6 | 5325 | 937  | 3.35 |
|           | 0.8 | 5419 | 1077 | 4.30 |                 | 0.8 | 5518 | 1001 | 3.99 |           | 0.8 | 5142 | 1041 | 3.72 |                 | 0.8 | 5235 | 970  | 3.46 |
|           | 1.0 | 5345 | 1109 | 4.42 |                 | 1.0 | 5425 | 1036 | 4.13 |           | 1.0 | 5050 | 1073 | 3.83 |                 | 1.0 | 5136 | 1004 | 3.59 |
|           | 1.2 | 5257 | 1139 | 4.54 |                 | 1.2 | 5336 | 1072 | 4.27 |           | 1.2 | 4952 | 1107 | 3.95 |                 | 1.2 | 5038 | 1043 | 3.73 |
|           | 1.4 | 5162 | 1169 | 4.66 |                 | 1.4 | 5235 | 1108 | 4.42 |           | 1.4 | 4863 | 1139 | 4.07 |                 | 1.4 | 4936 | 1083 | 3.87 |
|           | 1.6 | 5060 | 1205 | 4.81 |                 | 1.6 | 5113 | 1151 | 4.59 |           | 1.6 | 4742 | 1175 | 4.20 |                 | 1.6 | 4819 | 1123 | 4.01 |
|           | 1.8 | 4938 | 1240 | 4.95 |                 | 1.8 | 4977 | 1194 | 4.76 |           | 1.8 | 4627 | 1210 | 4.32 |                 | 1.8 | 4699 | 1166 | 4.16 |
|           | 2.0 | 4824 | 1273 | 5.08 |                 | 2.0 | 4871 | 1221 | 4.87 |           | 2.0 | 4511 | 1247 | 4.45 |                 | 2.0 | 4595 | 1196 | 4.27 |

#### Note:

- Taps T1 and T2 are for first stage of cooling only. Taps T6 and T7 are for first stage of heating only. Refer to page 11 for speed tap selection.
- Shaded area are not recommended for cooling or heating operation.
- Airflow table includes resistance for base unit only with 2" clean air filters in place. Any Additional air resistance caused by factory or field installed options or accessories must be added to the ESP in order to select the correct speed tap.

## APPENDIX A BLOWER PERFORMANCE DATA

The following tables are provided for reference only to show DDC control settings relationship to unit CFM. Blower speed settings must be set to meet the minimum required CFM of their stages.

### 7.5 TON

MODELS : DHC0903D, DHC0904D & DHC0907D WITH DDC CONTROLS

STANDARD STATIC TO 1.7 HP (0.2 ~ 0.8 ESP)

#### DOWN FLOW

| CFM  | 0.2 |       |      | 0.4 |       |      | 0.6 |       |      | 0.8 |       |      | 1.0 |       |     |
|------|-----|-------|------|-----|-------|------|-----|-------|------|-----|-------|------|-----|-------|-----|
|      | RPM | DDC % | BHP  | RPM | DDC % | BHP  | RPM | DDC % | BHP  | RPM | DDC % | BHP  | RPM | DDC % | BHP |
| 1400 |     |       |      |     |       |      |     |       |      | 782 | 22    | 0.49 | -   | -     | -   |
| 1600 |     |       |      | 647 | 20    | 0.37 | 717 | 22    | 0.43 | 801 | 25    | 0.57 | -   | -     | -   |
| 1800 | 555 | 20    | 0.33 | 671 | 23    | 0.44 | 740 | 25    | 0.50 | 820 | 28    | 0.65 | -   | -     | -   |
| 2000 | 587 | 23    | 0.40 | 696 | 26    | 0.51 | 763 | 28    | 0.57 | 839 | 30    | 0.75 | -   | -     | -   |
| 2200 | 619 | 27    | 0.48 | 720 | 29    | 0.60 | 786 | 31    | 0.66 | 858 | 33    | 0.87 | -   | -     | -   |
| 2400 | 651 | 30    | 0.57 | 745 | 32    | 0.71 | 809 | 34    | 0.76 | 877 | 36    | 1.00 | -   | -     | -   |
| 2600 | 683 | 33    | 0.69 | 769 | 35    | 0.83 | 832 | 37    | 0.87 | 896 | 39    | 1.15 | -   | -     | -   |
| 2800 | 715 | 36    | 0.82 | 794 | 38    | 0.98 | 855 | 40    | 1.00 | 915 | 42    | 1.32 | -   | -     | -   |
| 3000 | 747 | 39    | 0.99 | 818 | 41    | 1.14 | 878 | 43    | 1.15 | 934 | 45    | 1.52 | -   | -     | -   |
| 3200 | 779 | 43    | 1.18 | 843 | 44    | 1.34 | 901 | 46    | 1.33 | 953 | 47    | 1.74 | -   | -     | -   |
| 3400 | 810 | 46    | 1.41 | 867 | 47    | 1.58 | 924 | 48    | 1.53 |     |       |      | -   | -     | -   |
| 3600 | 842 | 48    | 1.69 |     |       |      |     |       |      |     |       |      | -   | -     | -   |

Shaded area indicates air flow below 2250 SCFM (300 SCFM/ton) that is not recommended for High Stage cooling or heating. Valid motor operating range for DDC% setting is 20 - 90.

#### HORIZONTAL FLOW

| CFM  | 0.2 |       |      | 0.4 |       |      | 0.6 |       |      | 0.8 |       |      | 1.0 |       |     |
|------|-----|-------|------|-----|-------|------|-----|-------|------|-----|-------|------|-----|-------|-----|
|      | RPM | DDC % | BHP  | RPM | DDC % | BHP  | RPM | DDC % | BHP  | RPM | DDC % | BHP  | RPM | DDC % | BHP |
| 1400 | 409 | 25    | 0.23 | 518 | 20    | 0.32 | 597 | 20    | 0.41 | 720 | 24    | 0.59 | -   | -     | -   |
| 1600 | 440 | 27    | 0.27 | 542 | 23    | 0.37 | 619 | 22    | 0.48 | 733 | 27    | 0.67 | -   | -     | -   |
| 1800 | 471 | 30    | 0.33 | 567 | 25    | 0.44 | 641 | 26    | 0.55 | 745 | 30    | 0.75 | -   | -     | -   |
| 2000 | 502 | 32    | 0.39 | 591 | 28    | 0.51 | 664 | 29    | 0.63 | 758 | 32    | 0.85 | -   | -     | -   |
| 2200 | 533 | 35    | 0.47 | 616 | 31    | 0.60 | 686 | 32    | 0.72 | 771 | 35    | 0.96 | -   | -     | -   |
| 2400 | 564 | 37    | 0.56 | 640 | 34    | 0.71 | 708 | 35    | 0.83 | 784 | 38    | 1.08 | -   | -     | -   |
| 2600 | 595 | 39    | 0.67 | 665 | 37    | 0.83 | 730 | 38    | 0.96 | 797 | 40    | 1.22 | -   | -     | -   |
| 2800 | 626 | 42    | 0.81 | 690 | 39    | 0.97 | 752 | 41    | 1.10 | 809 | 43    | 1.37 | -   | -     | -   |
| 3000 | 657 | 44    | 0.97 | 714 | 42    | 1.14 | 774 | 44    | 1.27 | 822 | 46    | 1.55 | -   | -     | -   |
| 3200 | 688 | 47    | 1.16 | 739 | 45    | 1.34 | 796 | 47    | 1.46 | 835 | 48    | 1.75 | -   | -     | -   |
| 3400 | 718 | 48    | 1.38 | 763 | 48    | 1.57 |     |       |      |     |       |      | -   | -     | -   |
| 3600 |     |       |      |     |       |      |     |       |      |     |       |      | -   | -     | -   |

Shaded area indicates air flow below 2250 SCFM (300 SCFM/ton) that is not recommended for High Stage cooling or heating. Valid motor operating range for DDC% setting is 20 - 90.

# APPENDIX A BLOWER PERFORMANCE DATA

7.5 TON

MODELS : DHC0903L, DHC0904L & DHC0907L WITH DDC CONTROLS

MEDIUM STATIC TO 2.4 HP (0.2 ~ 1.4 ESP)

DOWN FLOW

| CFM  | 0.2  |       |      | 0.4  |       |      | 0.6 |       |      | 0.8  |       |      | 1.0  |       |      |
|------|------|-------|------|------|-------|------|-----|-------|------|------|-------|------|------|-------|------|
|      | RPM  | DDC % | BHP  | RPM  | DDC % | BHP  | RPM | DDC % | BHP  | RPM  | DDC % | BHP  | RPM  | DDC % | BHP  |
| 1400 | 486  | 12    | 0.24 | 594  | 16    | 0.31 | 691 | 18    | 0.38 | 782  | 21    | 0.49 | 821  | 16    | 0.58 |
| 1600 | 519  | 16    | 0.28 | 622  | 19    | 0.36 | 715 | 22    | 0.43 | 802  | 24    | 0.57 | 843  | 20    | 0.66 |
| 1800 | 553  | 19    | 0.34 | 651  | 22    | 0.42 | 740 | 25    | 0.50 | 822  | 27    | 0.65 | 865  | 24    | 0.74 |
| 2000 | 586  | 23    | 0.41 | 679  | 26    | 0.50 | 764 | 28    | 0.57 | 843  | 30    | 0.75 | 887  | 28    | 0.84 |
| 2200 | 619  | 26    | 0.49 | 708  | 29    | 0.58 | 788 | 31    | 0.66 | 863  | 34    | 0.86 | 909  | 32    | 0.94 |
| 2400 | 652  | 30    | 0.58 | 736  | 32    | 0.69 | 813 | 35    | 0.76 | 883  | 37    | 0.99 | 931  | 35    | 1.06 |
| 2600 | 685  | 33    | 0.70 | 764  | 36    | 0.80 | 837 | 38    | 0.87 | 903  | 40    | 1.14 | 953  | 39    | 1.20 |
| 2800 | 719  | 37    | 0.84 | 793  | 39    | 0.94 | 861 | 41    | 1.00 | 923  | 43    | 1.31 | 975  | 43    | 1.35 |
| 3000 | 752  | 40    | 1.00 | 821  | 43    | 1.11 | 886 | 44    | 1.15 | 943  | 46    | 1.51 | 997  | 47    | 1.52 |
| 3200 | 785  | 44    | 1.20 | 849  | 46    | 1.30 | 910 | 48    | 1.33 | 964  | 49    | 1.73 | 1019 | 51    | 1.72 |
| 3400 | 818  | 47    | 1.43 | 878  | 49    | 1.53 | 935 | 51    | 1.53 | 984  | 52    | 1.99 | 1041 | 55    | 1.94 |
| 3600 | 852  | 51    | 1.72 | 906  | 53    | 1.79 | 959 | 54    | 1.76 | 1004 | 55    | 2.29 | 1063 | 59    | 2.18 |
| 3800 | 885  | 54    | 2.05 | 935  | 56    | 2.10 | 983 | 57    | 2.02 |      |       |      |      |       |      |
| CFM  | 1.2  |       |      | 1.4  |       |      | 1.6 |       |      | 1.8  |       |      | 2.0  |       |      |
|      | RPM  | DDC % | BHP  | RPM  | DDC % | BHP  | RPM | DDC % | BHP  | RPM  | DDC % | BHP  | RPM  | DDC % | BHP  |
| 1400 | 919  | 23    | 0.76 | 1040 | 28    | 1.00 | -   | -     | -    | -    | -     | -    | -    | -     | -    |
| 1600 | 936  | 26    | 0.84 | 1048 | 31    | 1.08 | -   | -     | -    | -    | -     | -    | -    | -     | -    |
| 1800 | 952  | 29    | 0.93 | 1056 | 34    | 1.17 | -   | -     | -    | -    | -     | -    | -    | -     | -    |
| 2000 | 969  | 33    | 1.02 | 1064 | 37    | 1.27 | -   | -     | -    | -    | -     | -    | -    | -     | -    |
| 2200 | 986  | 36    | 1.13 | 1071 | 40    | 1.38 | -   | -     | -    | -    | -     | -    | -    | -     | -    |
| 2400 | 1002 | 39    | 1.25 | 1079 | 43    | 1.49 | -   | -     | -    | -    | -     | -    | -    | -     | -    |
| 2600 | 1019 | 43    | 1.38 | 1087 | 46    | 1.62 | -   | -     | -    | -    | -     | -    | -    | -     | -    |
| 2800 | 1035 | 46    | 1.53 | 1095 | 49    | 1.75 | -   | -     | -    | -    | -     | -    | -    | -     | -    |
| 3000 | 1052 | 49    | 1.69 | 1102 | 52    | 1.90 | -   | -     | -    | -    | -     | -    | -    | -     | -    |
| 3200 | 1068 | 53    | 1.86 | 1110 | 55    | 2.05 | -   | -     | -    | -    | -     | -    | -    | -     | -    |
| 3400 | 1085 | 56    | 2.06 | 1118 | 57    | 2.22 | -   | -     | -    | -    | -     | -    | -    | -     | -    |
| 3600 | 1101 | 60    | 2.28 | 1126 | 60    | 2.41 | -   | -     | -    | -    | -     | -    | -    | -     | -    |
| 3800 |      |       |      |      |       |      | -   | -     | -    | -    | -     | -    | -    | -     | -    |

Shaded area indicates air flow below 2250 SCFM (300 SCFM/ton) that is not recommended for High Stage cooling or heating. Valid motor operating range for DDC% setting is 20 - 90.

HORIZONTAL FLOW

| CFM  | 0.2 |       |      | 0.4 |       |      | 0.6 |       |      | 0.8 |       |      | 1.0 |       |      |
|------|-----|-------|------|-----|-------|------|-----|-------|------|-----|-------|------|-----|-------|------|
|      | RPM | DDC % | BHP  | RPM | DDC % | BHP  | RPM | DDC % | BHP  | RPM | DDC % | BHP  | RPM | DDC % | BHP  |
| 1400 | 421 | 16    | 0.20 | 507 | 19    | 0.31 | 560 | 16    | 0.39 | 652 | 20    | 0.53 | 736 | 24    | 0.61 |
| 1600 | 450 | 19    | 0.24 | 535 | 22    | 0.36 | 587 | 20    | 0.45 | 675 | 24    | 0.60 | 755 | 27    | 0.67 |
| 1800 | 478 | 22    | 0.28 | 562 | 25    | 0.42 | 615 | 24    | 0.50 | 697 | 27    | 0.67 | 775 | 30    | 0.74 |
| 2000 | 506 | 25    | 0.33 | 590 | 28    | 0.50 | 643 | 27    | 0.57 | 720 | 30    | 0.76 | 794 | 33    | 0.82 |
| 2200 | 534 | 29    | 0.39 | 618 | 31    | 0.58 | 670 | 31    | 0.64 | 742 | 34    | 0.85 | 813 | 36    | 0.90 |
| 2400 | 563 | 32    | 0.46 | 645 | 34    | 0.69 | 698 | 34    | 0.72 | 765 | 37    | 0.96 | 833 | 40    | 1.00 |
| 2600 | 591 | 35    | 0.53 | 673 | 38    | 0.81 | 725 | 38    | 0.81 | 788 | 40    | 1.09 | 852 | 43    | 1.10 |
| 2800 | 619 | 38    | 0.63 | 701 | 41    | 0.94 | 753 | 41    | 0.91 | 810 | 43    | 1.22 | 872 | 46    | 1.22 |
| 3000 | 647 | 41    | 0.74 | 728 | 44    | 1.11 | 780 | 45    | 1.03 | 833 | 47    | 1.38 | 891 | 49    | 1.35 |
| 3200 | 675 | 45    | 0.86 | 756 | 47    | 1.30 | 808 | 48    | 1.16 | 856 | 50    | 1.56 | 910 | 52    | 1.49 |
| 3400 | 704 | 48    | 1.01 | 783 | 50    | 1.53 | 836 | 52    | 1.31 | 878 | 53    | 1.76 | 930 | 56    | 1.65 |
| 3600 | 732 | 51    | 1.19 | 811 | 53    | 1.79 | 863 | 56    | 1.48 | 901 | 57    | 1.98 | 949 | 59    | 1.82 |
| 3800 | 760 | 54    | 1.40 | 839 | 56    | 2.10 | 891 | 59    | 1.67 | 923 | 60    | 2.23 | 968 | 62    | 2.01 |
| CFM  | 1.2 |       |      | 1.4 |       |      | 1.6 |       |      | 1.8 |       |      | 2.0 |       |      |
|      | RPM | DDC % | BHP  | RPM | DDC % | BHP  | RPM | DDC % | BHP  | RPM | DDC % | BHP  | RPM | DDC % | BHP  |
| 1400 | 862 | 31    | 0.92 | 957 | 35    | 1.09 | -   | -     | -    | -   | -     | -    | -   | -     | -    |
| 1600 | 872 | 33    | 0.99 | 960 | 37    | 1.15 | -   | -     | -    | -   | -     | -    | -   | -     | -    |
| 1800 | 882 | 36    | 1.08 | 964 | 39    | 1.22 | -   | -     | -    | -   | -     | -    | -   | -     | -    |
| 2000 | 892 | 38    | 1.17 | 967 | 41    | 1.30 | -   | -     | -    | -   | -     | -    | -   | -     | -    |
| 2200 | 902 | 41    | 1.26 | 971 | 43    | 1.38 | -   | -     | -    | -   | -     | -    | -   | -     | -    |
| 2400 | 911 | 43    | 1.37 | 974 | 46    | 1.46 | -   | -     | -    | -   | -     | -    | -   | -     | -    |
| 2600 | 921 | 46    | 1.48 | 978 | 48    | 1.56 | -   | -     | -    | -   | -     | -    | -   | -     | -    |
| 2800 | 931 | 48    | 1.60 | 981 | 50    | 1.65 | -   | -     | -    | -   | -     | -    | -   | -     | -    |
| 3000 | 941 | 51    | 1.74 | 985 | 52    | 1.75 | -   | -     | -    | -   | -     | -    | -   | -     | -    |
| 3200 | 951 | 53    | 1.88 | 988 | 55    | 1.86 | -   | -     | -    | -   | -     | -    | -   | -     | -    |
| 3400 | 961 | 56    | 2.04 | 992 | 57    | 1.98 | -   | -     | -    | -   | -     | -    | -   | -     | -    |
| 3600 | 971 | 59    | 2.21 | 995 | 59    | 2.10 | -   | -     | -    | -   | -     | -    | -   | -     | -    |
| 3800 | 980 | 61    | 2.39 | 999 | 61    | 2.23 | -   | -     | -    | -   | -     | -    | -   | -     | -    |

Shaded area indicates air flow below 2250 SCFM (300 SCFM/ton) that is not recommended for High Stage cooling or heating.

Valid motor operating range for DDC% setting is 20 - 90.

# APPENDIX A BLOWER PERFORMANCE DATA

7.5 TON

MODELS : DHC0903W,DHC0904W & DHC0907W WITH DDC CONTROLS

HIGH STATIC TO 3.5 HP (0.2 ~ 2.0 ESP)

DOWN FLOW

| CFM  | 0.2  |       |      | 0.4  |       |      | 0.6  |       |      | 0.8  |       |      | 1.0  |       |      |
|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|
|      | RPM  | DDC % | BHP  | RPM  | DDC % | BHP  | RPM  | DDC % | BHP  | RPM  | DDC % | BHP  | RPM  | DDC % | BHP  |
| 1800 | 543  | 22    | 0.29 | 651  | 24    | 0.42 | 743  | 26    | 0.53 | 820  | 27    | 0.67 | 863  | 27    | 0.73 |
| 2000 | 580  | 24    | 0.35 | 680  | 27    | 0.49 | 766  | 29    | 0.61 | 842  | 30    | 0.77 | 885  | 30    | 0.82 |
| 2200 | 616  | 27    | 0.42 | 708  | 29    | 0.58 | 789  | 31    | 0.71 | 863  | 33    | 0.88 | 907  | 33    | 0.93 |
| 2400 | 652  | 30    | 0.50 | 736  | 32    | 0.68 | 812  | 34    | 0.81 | 884  | 35    | 1.01 | 929  | 36    | 1.05 |
| 2600 | 688  | 33    | 0.60 | 764  | 34    | 0.80 | 835  | 36    | 0.93 | 906  | 38    | 1.17 | 951  | 39    | 1.18 |
| 2800 | 725  | 35    | 0.71 | 792  | 37    | 0.94 | 858  | 38    | 1.07 | 927  | 40    | 1.34 | 974  | 41    | 1.33 |
| 3000 | 761  | 38    | 0.86 | 820  | 39    | 1.10 | 881  | 41    | 1.24 | 948  | 43    | 1.54 | 996  | 44    | 1.50 |
| 3200 | 797  | 41    | 1.02 | 848  | 42    | 1.29 | 904  | 43    | 1.42 | 970  | 46    | 1.77 | 1018 | 47    | 1.69 |
| 3400 | 833  | 44    | 1.23 | 876  | 45    | 1.52 | 927  | 46    | 1.63 | 991  | 48    | 2.04 | 1040 | 50    | 1.91 |
| 3600 | 870  | 47    | 1.47 | 904  | 47    | 1.78 | 950  | 48    | 1.88 | 1012 | 51    | 2.35 | 1062 | 52    | 2.15 |
| 3800 | 906  | 49    | 1.76 | 933  | 50    | 2.09 | 974  | 51    | 2.16 | 1033 | 53    | 2.70 | 1084 | 55    | 2.43 |
| CFM  | 1.2  |       |      | 1.4  |       |      | 1.6  |       |      | 1.8  |       |      | 2.0  |       |      |
|      | RPM  | DDC % | BHP  | RPM  | DDC % | BHP  | RPM  | DDC % | BHP  | RPM  | DDC % | BHP  | RPM  | DDC % | BHP  |
| 1800 | 948  | 31    | 0.90 | 1059 | 32    | 1.10 | 1137 | 35    | 1.48 | 1180 | 37    | 1.59 | 1217 | 39    | 1.54 |
| 2000 | 965  | 34    | 1.00 | 1068 | 35    | 1.19 | 1141 | 38    | 1.60 | 1185 | 39    | 1.72 | 1232 | 41    | 1.67 |
| 2200 | 981  | 36    | 1.10 | 1077 | 37    | 1.29 | 1145 | 40    | 1.73 | 1190 | 41    | 1.87 | 1246 | 43    | 1.81 |
| 2400 | 998  | 39    | 1.22 | 1087 | 39    | 1.40 | 1149 | 42    | 1.88 | 1195 | 43    | 2.02 | 1260 | 45    | 1.96 |
| 2600 | 1014 | 41    | 1.35 | 1096 | 42    | 1.52 | 1154 | 44    | 2.03 | 1200 | 45    | 2.19 | 1274 | 47    | 2.12 |
| 2800 | 1031 | 43    | 1.49 | 1105 | 44    | 1.64 | 1158 | 46    | 2.20 | 1205 | 48    | 2.37 | 1288 | 49    | 2.30 |
| 3000 | 1047 | 46    | 1.64 | 1115 | 47    | 1.78 | 1162 | 48    | 2.39 | 1210 | 50    | 2.57 | 1302 | 51    | 2.49 |
| 3200 | 1064 | 48    | 1.82 | 1124 | 49    | 1.93 | 1166 | 51    | 2.59 | 1215 | 52    | 2.78 | 1316 | 53    | 2.69 |
| 3400 | 1080 | 51    | 2.01 | 1133 | 52    | 2.09 | 1171 | 53    | 2.80 | 1220 | 54    | 3.02 | 1331 | 55    | 2.92 |
| 3600 | 1097 | 53    | 2.22 | 1143 | 54    | 2.26 | 1175 | 55    | 3.03 | 1225 | 56    | 3.27 | 1345 | 57    | 3.16 |
| 3800 | 1113 | 56    | 2.45 | 1152 | 56    | 2.45 | 1179 | 57    | 3.29 | 1230 | 59    | 3.50 | 1359 | 59    | 3.43 |

Shaded area indicates air flow below 2250 SCFM(300 SCFM/ton) that is not recommended for High Stage cooling or heating. Valid motor operating range for DDC% setting is 20 - 90.

HORIZONTAL FLOW

| CFM  | 0.2  |       |      | 0.4  |       |      | 0.6  |       |      | 0.8  |       |      | 1.0  |       |      |
|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|
|      | RPM  | DDC % | BHP  | RPM  | DDC % | BHP  | RPM  | DDC % | BHP  | RPM  | DDC % | BHP  | RPM  | DDC % | BHP  |
| 1800 | 466  | 22    | 0.29 | 567  | 27    | 0.42 | 632  | 29    | 0.51 | 673  | 28    | 0.65 | 762  | 30    | 0.75 |
| 2000 | 499  | 24    | 0.35 | 595  | 29    | 0.49 | 657  | 32    | 0.58 | 700  | 30    | 0.75 | 784  | 33    | 0.85 |
| 2200 | 532  | 27    | 0.42 | 622  | 31    | 0.58 | 681  | 34    | 0.65 | 727  | 33    | 0.87 | 806  | 35    | 0.96 |
| 2400 | 565  | 29    | 0.50 | 650  | 34    | 0.68 | 706  | 36    | 0.73 | 754  | 36    | 1.00 | 829  | 38    | 1.08 |
| 2600 | 598  | 32    | 0.60 | 677  | 36    | 0.80 | 731  | 38    | 0.82 | 781  | 38    | 1.15 | 851  | 40    | 1.21 |
| 2800 | 630  | 34    | 0.71 | 705  | 38    | 0.93 | 756  | 40    | 0.93 | 809  | 41    | 1.32 | 873  | 43    | 1.37 |
| 3000 | 663  | 37    | 0.85 | 732  | 41    | 1.10 | 780  | 42    | 1.05 | 836  | 44    | 1.52 | 895  | 45    | 1.54 |
| 3200 | 696  | 40    | 1.02 | 760  | 43    | 1.29 | 805  | 44    | 1.18 | 863  | 46    | 1.74 | 918  | 48    | 1.74 |
| 3400 | 729  | 42    | 1.22 | 788  | 45    | 1.51 | 830  | 47    | 1.33 | 890  | 49    | 2.01 | 940  | 50    | 1.96 |
| 3600 | 762  | 45    | 1.47 | 815  | 47    | 1.77 | 854  | 49    | 1.50 | 917  | 52    | 2.31 | 962  | 53    | 2.21 |
| 3800 | 795  | 47    | 1.75 | 843  | 50    | 2.08 | 879  | 51    | 1.69 | 945  | 54    | 2.65 | 984  | 55    | 2.50 |
| CFM  | 1.2  |       |      | 1.4  |       |      | 1.6  |       |      | 1.8  |       |      | 2.0  |       |      |
|      | RPM  | DDC % | BHP  | RPM  | DDC % | BHP  | RPM  | DDC % | BHP  | RPM  | DDC % | BHP  | RPM  | DDC % | BHP  |
| 1800 | 843  | 32    | 0.83 | 968  | 36    | 1.27 | 1025 | 38    | 1.51 | 1066 | 39    | 1.63 | 1112 | 40    | 1.79 |
| 2000 | 860  | 35    | 0.92 | 974  | 38    | 1.37 | 1029 | 40    | 1.63 | 1070 | 41    | 1.76 | 1118 | 43    | 1.94 |
| 2200 | 877  | 37    | 1.02 | 980  | 40    | 1.49 | 1033 | 42    | 1.77 | 1074 | 43    | 1.91 | 1124 | 45    | 2.10 |
| 2400 | 895  | 40    | 1.12 | 986  | 42    | 1.61 | 1037 | 44    | 1.92 | 1079 | 45    | 2.07 | 1130 | 47    | 2.27 |
| 2600 | 912  | 42    | 1.24 | 992  | 44    | 1.74 | 1041 | 46    | 2.08 | 1083 | 47    | 2.24 | 1135 | 49    | 2.46 |
| 2800 | 929  | 44    | 1.37 | 998  | 46    | 1.89 | 1045 | 48    | 2.25 | 1087 | 49    | 2.43 | 1141 | 51    | 2.67 |
| 3000 | 947  | 47    | 1.52 | 1004 | 48    | 2.05 | 1048 | 50    | 2.44 | 1092 | 51    | 2.63 | 1147 | 53    | 2.89 |
| 3200 | 964  | 49    | 1.67 | 1009 | 51    | 2.22 | 1052 | 52    | 2.64 | 1096 | 53    | 2.85 | 1153 | 55    | 3.13 |
| 3400 | 981  | 52    | 1.85 | 1015 | 53    | 2.40 | 1056 | 54    | 2.86 | 1100 | 55    | 3.09 | 1159 | 57    | 3.39 |
| 3600 | 999  | 54    | 2.05 | 1021 | 55    | 2.60 | 1060 | 56    | 3.10 | 1105 | 57    | 3.35 |      |       |      |
| 3800 | 1016 | 56    | 2.26 | 1027 | 57    | 2.82 | 1064 | 58    | 3.36 |      |       |      |      |       |      |

Shaded area indicates air flow below 2250 SCFM(300 SCFM/ton) that is not recommended for High Stage cooling or heating. Valid motor operating range for DDC% setting is 20 - 90.

# APPENDIX A BLOWER PERFORMANCE DATA

8.5 TON

MODELS : DHC1023D, DHC1024D & DHC1027D WITH DDC CONTROL

STANDARD STATIC TO 2.4 HP (0.2 ~ 0.8 ESP)

DOWN FLOW

| CFM  | 0.2 |       |      | 0.4 |       |      | 0.6 |       |      | 0.8  |       |      | 1.0 |       |     |
|------|-----|-------|------|-----|-------|------|-----|-------|------|------|-------|------|-----|-------|-----|
|      | RPM | DDC % | BHP  | RPM | DDC % | BHP  | RPM | DDC % | BHP  | RPM  | DDC % | BHP  | RPM | DDC % | BHP |
| 1600 |     |       |      |     |       |      | 607 | 21    | 0.48 | 801  | 25    | 0.61 | -   | -     | -   |
| 1800 | 424 | 19    | 0.37 | 515 | 22    | 0.46 | 625 | 24    | 0.54 | 820  | 28    | 0.69 | -   | -     | -   |
| 2000 | 452 | 22    | 0.44 | 539 | 26    | 0.54 | 642 | 28    | 0.61 | 839  | 30    | 0.77 | -   | -     | -   |
| 2200 | 480 | 26    | 0.53 | 563 | 29    | 0.63 | 659 | 31    | 0.68 | 858  | 33    | 0.87 | -   | -     | -   |
| 2400 | 507 | 29    | 0.63 | 588 | 32    | 0.74 | 677 | 35    | 0.77 | 877  | 36    | 0.98 | -   | -     | -   |
| 2600 | 535 | 33    | 0.76 | 612 | 36    | 0.87 | 694 | 38    | 0.87 | 896  | 39    | 1.11 | -   | -     | -   |
| 2800 | 563 | 36    | 0.90 | 636 | 39    | 1.02 | 711 | 42    | 0.98 | 915  | 42    | 1.25 | -   | -     | -   |
| 3000 | 590 | 40    | 1.08 | 660 | 42    | 1.20 | 729 | 45    | 1.10 | 934  | 45    | 1.41 | -   | -     | -   |
| 3200 | 618 | 43    | 1.30 | 684 | 46    | 1.41 | 746 | 48    | 1.24 | 953  | 47    | 1.59 | -   | -     | -   |
| 3400 | 646 | 46    | 1.55 | 708 | 49    | 1.65 | 763 | 52    | 1.40 | 972  | 50    | 1.79 | -   | -     | -   |
| 3600 | 673 | 50    | 1.86 | 733 | 52    | 1.94 | 781 | 55    | 1.58 | 991  | 53    | 2.02 | -   | -     | -   |
| 3800 | 701 | 53    | 2.23 | 757 | 56    | 2.28 | 798 | 59    | 1.78 | 1010 | 56    | 2.28 | -   | -     | -   |

Shaded area indicates air flow below 2550 SCFM (300 SCFM/ton) that is not recommended for High Stage cooling or heating. Valid motor operating range for DDC% setting is 20 - 90.

HORIZONTAL FLOW

| CFM  | 0.2 |       |      | 0.4 |       |      | 0.6 |       |      | 0.8 |       |      | 1.0 |       |     |
|------|-----|-------|------|-----|-------|------|-----|-------|------|-----|-------|------|-----|-------|-----|
|      | RPM | DDC % | BHP  | RPM | DDC % | BHP  | RPM | DDC % | BHP  | RPM | DDC % | BHP  | RPM | DDC % | BHP |
| 1600 |     |       |      |     |       |      |     |       |      | 611 | 21    | 0.49 | -   | -     | -   |
| 1800 |     |       |      | 496 | 21    | 0.34 | 581 | 22    | 0.47 | 632 | 24    | 0.56 | -   | -     | -   |
| 2000 | 435 | 21    | 0.32 | 521 | 24    | 0.39 | 603 | 26    | 0.53 | 654 | 28    | 0.63 | -   | -     | -   |
| 2200 | 464 | 25    | 0.37 | 546 | 28    | 0.45 | 626 | 29    | 0.59 | 675 | 31    | 0.71 | -   | -     | -   |
| 2400 | 494 | 28    | 0.43 | 571 | 31    | 0.52 | 648 | 33    | 0.67 | 696 | 34    | 0.80 | -   | -     | -   |
| 2600 | 523 | 32    | 0.51 | 596 | 35    | 0.60 | 671 | 36    | 0.75 | 718 | 38    | 0.90 | -   | -     | -   |
| 2800 | 552 | 35    | 0.60 | 621 | 38    | 0.69 | 693 | 40    | 0.85 | 739 | 41    | 1.01 | -   | -     | -   |
| 3000 | 581 | 39    | 0.70 | 646 | 41    | 0.79 | 715 | 44    | 0.96 | 760 | 45    | 1.14 | -   | -     | -   |
| 3200 | 611 | 43    | 0.82 | 671 | 45    | 0.91 | 738 | 47    | 1.08 | 782 | 48    | 1.29 | -   | -     | -   |
| 3400 | 640 | 46    | 0.97 | 695 | 48    | 1.05 | 760 | 51    | 1.22 | 803 | 51    | 1.45 | -   | -     | -   |
| 3600 | 669 | 50    | 1.13 | 720 | 52    | 1.20 | 782 | 54    | 1.37 | 824 | 55    | 1.64 | -   | -     | -   |
| 3800 | 699 | 53    | 1.33 | 745 | 55    | 1.39 | 805 | 58    | 1.55 | 846 | 58    | 1.85 | -   | -     | -   |

Shaded area indicates air flow below 2550 SCFM (300 SCFM/ton) that is not recommended for High Stage cooling or heating.

Valid motor operating range for DDC% setting is 20 - 90.