

## DIRECT GAS FIRED AIR REPLACEMENT UNITS

### Forward Curved Fan Chart 2 - Table 3

Total External Static Pressure In Inches of Water Column

| MODEL | CFM Std. Air | Outlet Velocity FPM | .50" SP |      | .75" SP |      | 1.00" SP |      | 1.25" SP |      | 1.50" SP |      | 1.75" SP |      | 2.00" SP |      |
|-------|--------------|---------------------|---------|------|---------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
|       |              |                     | RPM     | BHP  | RPM     | BHP  | RPM      | BHP  | RPM      | BHP  | RPM      | BHP  | RPM      | BHP  | RPM      | BHP  |
| 127   | 20000        | 2478                | 433     | 8.3  | 469     | 9.4  | 494      | 10.3 | 521      | 11.2 | 545      | 12.0 | 575      | 13.3 | 600      | 13.9 |
|       | 22000        | 2726                | 451     | 10.0 | 481     | 11.4 | 510      | 12.2 | 535      | 13.3 | 556      | 14.4 | 589      | 15.6 | 611      | 16.3 |
|       | 24000        | 2973                | 471     | 12.4 | 500     | 13.4 | 524      | 14.5 | 549      | 15.5 | 576      | 16.7 | 607      | 17.8 | 624      | 18.8 |
|       | 26000        | 3222                | 496     | 14.9 | 522     | 16.1 | 546      | 17.1 | 570      | 18.3 | 594      | 19.7 | 616      | 20.7 | 636      | 21.9 |
|       | 28000        | 3470                | 516     | 17.7 | 540     | 19.0 | 565      | 20.5 | 592      | 21.6 | 625      | 22.6 | 637      | 24.1 | 657      | 25.6 |
| 130   | 22000        | 2366                | 372     | 8.4  | 400     | 9.4  | 425      | 10.4 | 453      | 11.6 | 481      | 12.9 | 507      | 14.1 | 533      | 15.5 |
|       | 24000        | 2581                | 379     | 9.9  | 410     | 10.9 | 430      | 12.2 | 460      | 13.6 | 483      | 14.7 | 511      | 16.0 | 538      | 17.2 |
|       | 26000        | 2796                | 389     | 11.8 | 416     | 12.9 | 443      | 14.2 | 467      | 15.1 | 494      | 16.6 | 516      | 17.4 | 541      | 19.2 |
|       | 28000        | 3010                | 404     | 13.7 | 433     | 15.0 | 454      | 16.4 | 479      | 17.8 | 504      | 17.8 | 525      | 20.5 | 549      | 22.0 |
|       | 30000        | 3226                | 421     | 16.4 | 443     | 17.6 | 470      | 19.4 | 488      | 20.5 | 512      | 20.7 | 534      | 23.4 | 557      | 24.9 |
|       | 32000        | 3440                | 431     | 19.0 | 452     | 20.5 | 479      | 22.0 | 500      | 23.2 | 522      | 24.8 | 544      | 26.2 | 567      | 27.9 |
| 133   | 26000        | 2488                | 376     | 10.9 | 401     | 12.3 | 425      | 13.7 | 449      | 15.2 | 472      | 16.7 | 495      | 18.4 | 516      | 19.9 |
|       | 28000        | 2679                | 389     | 12.8 | 412     | 14.1 | 435      | 15.6 | 458      | 17.2 | 480      | 18.7 | 502      | 20.4 | 522      | 22.1 |
|       | 30000        | 2870                | 403     | 14.9 | 425     | 16.3 | 447      | 17.8 | 468      | 19.3 | 489      | 20.9 | 510      | 22.7 | 530      | 24.4 |
|       | 32000        | 3076                | 418     | 17.2 | 439     | 18.7 | 460      | 20.0 | 479      | 21.7 | 500      | 23.5 | 420      | 25.3 | 539      | 27.1 |
|       | 34000        | 3253                | 433     | 19.8 | 452     | 21.2 | 472      | 22.8 | 492      | 24.6 | 511      | 26.3 | 529      | 27.9 | 548      | 29.8 |
|       | 36000        | 3444                | 448     | 22.6 | 467     | 24.2 | 486      | 25.9 | 504      | 27.5 | 523      | 29.4 | 541      | 31.2 | 558      | 33.1 |
| 136   | 30000        | 2362                | 337     | 10.8 | 361     | 12.2 | 385      | 13.8 | 408      | 15.4 | 431      | 17.2 | 453      | 18.9 | 474      | 20.4 |
|       | 32000        | 2520                | 346     | 12.3 | 369     | 13.7 | 392      | 15.3 | 414      | 17.0 | 436      | 18.8 | 457      | 20.6 | 478      | 22.5 |
|       | 34000        | 2677                | 355     | 13.9 | 377     | 15.4 | 399      | 17.0 | 420      | 18.7 | 441      | 20.5 | 461      | 22.3 | 481      | 24.2 |
|       | 36000        | 2835                | 369     | 16.0 | 390     | 17.6 | 411      | 19.2 | 431      | 20.9 | 451      | 22.8 | 470      | 24.6 | 490      | 26.7 |
|       | 38000        | 2992                | 375     | 17.7 | 395     | 19.3 | 416      | 21.1 | 435      | 22.7 | 454      | 24.5 | 473      | 26.4 | 492      | 28.5 |
|       | 40000        | 3150                | 387     | 20.0 | 406     | 21.7 | 425      | 23.3 | 444      | 25.1 | 463      | 27.0 | 481      | 28.9 | 499      | 31.0 |
|       | 45000        | 3543                | 415     | 26.3 | 432     | 28.1 | 450      | 30.1 | 467      | 32.0 | 484      | 33.9 | 501      | 35.9 | 517      | 37.9 |
| 140   | 36000        | 2368                | 313     | 13.1 | 336     | 14.9 | 356      | 16.6 | 378      | 18.6 | 399      | 20.7 | 419      | 22.8 | 437      | 24.3 |
|       | 38000        | 2500                | 320     | 14.7 | 342     | 16.5 | 363      | 18.4 | 382      | 20.2 | 402      | 22.2 | 422      | 24.5 | 441      | 26.6 |
|       | 40000        | 2631                | 328     | 16.4 | 348     | 18.1 | 368      | 19.9 | 388      | 22.0 | 407      | 24.1 | 428      | 26.3 | 444      | 28.5 |
|       | 45000        | 2960                | 348     | 21.3 | 366     | 23.1 | 385      | 25.1 | 402      | 26.9 | 420      | 29.2 | 438      | 31.6 | 454      | 33.7 |
|       | 50000        | 3289                | 370     | 27.0 | 387     | 29.2 | 403      | 31.2 | 420      | 33.4 | 437      | 35.8 | 452      | 37.8 | 468      | 40.2 |
| 144   | 45000        | 2456                | 299     | 17.8 | 319     | 19.8 | 338      | 21.9 | 356      | 24.1 | 374      | 26.5 | 392      | 29.0 | 410      | 31.7 |
|       | 50000        | 2729                | 315     | 22.4 | 333     | 24.5 | 350      | 26.5 | 368      | 29.0 | 384      | 31.3 | 400      | 33.8 | 417      | 36.6 |
|       | 55000        | 3002                | 331     | 27.5 | 347     | 29.7 | 363      | 32.0 | 380      | 33.6 | 396      | 37.1 | 411      | 39.6 | 426      | 42.2 |
|       | 60000        | 3275                | 349     | 33.7 | 364     | 36.2 | 381      | 39.0 | 394      | 41.2 | 409      | 43.9 | 423      | 46.3 | 438      | 49.3 |
|       | 65000        | 3548                | 368     | 41.0 | 382     | 43.6 | 395      | 46.0 | 410      | 49.2 | 423      | 51.6 | 437      | 54.5 | 447      | 56.7 |
| 148   | 50000        | 2227                | 247     | 17.4 | 267     | 19.6 | 284      | 22.0 | 303      | 25.1 | 321      | 28.1 | 330      | 30.6 | 341      | 35.7 |
|       | 55000        | 2449                | 256     | 20.3 | 275     | 23.9 | 291      | 25.2 | 309      | 28.0 | 324      | 31.5 | 341      | 34.5 | 353      | 37.4 |
|       | 60000        | 2672                | 267     | 25.0 | 284     | 27.1 | 300      | 29.5 | 316      | 33.1 | 331      | 35.8 | 345      | 39.4 | 362      | 43.0 |
|       | 65000        | 2895                | 277     | 26.4 | 294     | 29.3 | 309      | 35.7 | 324      | 38.7 | 338      | 41.3 | 353      | 44.3 | 365      | 47.7 |
|       | 70000        | 3118                | 289     | 34.1 | 303     | 35.0 | 317      | 40.0 | 331      | 42.7 | 345      | 45.7 | 359      | 50.3 | 371      | 54.3 |
|       | 75000        | 3340                | 302     | 40.2 | 314     | 43.5 | 327      | 46.3 | 340      | 49.5 | 354      | 53.1 | 367      | 56.3 | 381      | 58.9 |

#### Notes:

- The capacities shown include the internal resistance of the basic burner/fan unit. Resistance of ductwork, inlet cowls, filter boxes, dampers, etc. must be calculated and totalled to determine the total external static pressure.
- For higher external static pressures consult head office.
- Performance is based on standard air (density .075 lb. per cubic foot, 70° F, 29.92" hg. bar). Horsepower data includes drive losses.