

GENERAL THERMAL CAPACITY PER UNIT AIRFLOW

| CFM Range | CAPACITY IN UNITS PER CFM RANGE | | | | | | | | | | | | REMARKS |
|-----------|------------------------------------|-------------------------|---|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | EQUIVALENT ROUND DUCT SIZE, INCHES | Tons at 400 CFM per Ton | Heating BTUH at Temperature Differences Noted | | | | | | | | | | |
| | | | Room °F | LAT °F | LAT °F | LAT °F | LAT °F | LAT °F | LAT °F | LAT °F | LAT °F | LAT °F | |
| | | | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | |
| 100 | See Duct Table | 0.25 | | 1,085 | 2,170 | 3,255 | 4,340 | 5,425 | 6,510 | 7,595 | 8,680 | 9,765 | |
| 125 | See Duct Table | 0.31 | | 1,356 | 2,713 | 4,069 | 5,425 | 6,781 | 8,138 | 9,494 | 10,850 | 12,206 | |
| 150 | See Duct Table | 0.38 | | 1,628 | 3,255 | 4,883 | 6,510 | 8,138 | 9,765 | 11,393 | 13,020 | 14,648 | |
| 200 | See Duct Table | 0.50 | | 2,170 | 4,340 | 6,510 | 8,680 | 10,850 | 13,020 | 15,190 | 17,360 | 19,530 | |
| 250 | See Duct Table | 0.63 | | 2,713 | 5,425 | 8,138 | 10,850 | 13,563 | 16,275 | 18,988 | 21,700 | 24,413 | |
| 300 | See Duct Table | 0.75 | | 3,255 | 6,510 | 9,765 | 13,020 | 16,275 | 19,530 | 22,785 | 26,040 | 29,295 | |
| 400 | See Duct Table | 1.00 | | 4,340 | 8,680 | 13,020 | 17,360 | 21,700 | 26,040 | 30,380 | 34,720 | 39,060 | |
| 500 | See Duct Table | 1.25 | | 5,425 | 10,850 | 16,275 | 21,700 | 27,125 | 32,550 | 37,975 | 43,400 | 48,825 | |
| 600 | See Duct Table | 1.50 | | 6,510 | 13,020 | 19,530 | 26,040 | 32,550 | 39,060 | 45,570 | 52,080 | 58,590 | |
| 700 | See Duct Table | 1.75 | | 7,595 | 15,190 | 22,785 | 30,380 | 37,975 | 45,570 | 53,165 | 60,760 | 68,355 | |
| 800 | See Duct Table | 2.00 | | 8,680 | 17,360 | 26,040 | 34,720 | 43,400 | 52,080 | 60,760 | 69,440 | 78,120 | |
| 900 | See Duct Table | 2.25 | | 9,765 | 19,530 | 29,295 | 39,060 | 48,825 | 58,590 | 68,355 | 78,120 | 87,885 | |
| 1,000 | See Duct Table | 2.50 | | 10,850 | 21,700 | 32,550 | 43,400 | 54,250 | 65,100 | 75,950 | 86,800 | 97,650 | |
| 1,200 | See Duct Table | 3.00 | | 13,020 | 26,040 | 39,060 | 52,080 | 65,100 | 78,120 | 91,140 | 104,160 | 117,180 | |
| 1,400 | See Duct Table | 3.50 | | 15,190 | 30,380 | 45,570 | 60,760 | 75,950 | 91,140 | 106,330 | 121,520 | 136,710 | |
| 1,600 | See Duct Table | 4.00 | | 17,360 | 34,720 | 52,080 | 69,440 | 86,800 | 104,160 | 121,520 | 138,880 | 156,240 | |
| 1,800 | See Duct Table | 4.50 | | 19,530 | 39,060 | 58,590 | 78,120 | 97,650 | 117,180 | 136,710 | 156,240 | 175,770 | |
| 2,000 | See Duct Table | 5.00 | | 21,700 | 43,400 | 65,100 | 86,800 | 108,500 | 130,200 | 151,900 | 173,600 | 195,300 | |
| 2,400 | See Duct Table | 6.00 | | 26,040 | 52,080 | 78,120 | 104,160 | 130,200 | 156,240 | 182,280 | 208,320 | 234,360 | |
| 3,000 | See Duct Table | 7.50 | | 32,550 | 65,100 | 97,650 | 130,200 | 162,750 | 195,300 | 227,850 | 260,400 | 292,950 | |
| 3,200 | See Duct Table | 8.00 | | 34,720 | 69,440 | 104,160 | 138,880 | 173,600 | 208,320 | 243,040 | 277,760 | 312,480 | |
| 3,600 | See Duct Table | 9.00 | | 39,060 | 78,120 | 117,180 | 156,240 | 195,300 | 234,360 | 273,420 | 312,480 | 351,540 | |
| 4,000 | See Duct Table | 10.00 | | 43,400 | 86,800 | 130,200 | 173,600 | 217,000 | 260,400 | 303,800 | 347,200 | 390,600 | |
| 4,500 | See Duct Table | 11.25 | | 48,825 | 97,650 | 146,475 | 195,300 | 244,125 | 292,950 | 341,775 | 390,600 | 439,425 | |
| 5,000 | See Duct Table | 12.50 | | 54,250 | 108,500 | 162,750 | 217,000 | 271,250 | 325,500 | 379,750 | 434,000 | 488,250 | |
| 6,000 | See Duct Table | 15.00 | | 65,100 | 130,200 | 195,300 | 260,400 | 325,500 | 390,600 | 455,700 | 520,800 | 585,900 | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

NOTES:

1. Tons cooling noted is highly dependent on outside air rates, space requirements and other variables, and is a general guide covering probably 80% of residential construction.
2. Specific heating and cooling load calculations will govern. This table represents tons and heating BTU per Hour capacities at sea level to 1,500 feet elevation.
3. Your heating appliance output capacities shall govern. In general, the lower LAT values (80 to 110F) apply to most condensing furnaces and hydro-air on condensing boilers.
4. Interpolation and extrapolation are acceptable. "Per 100 cfm" is a good benchmark value.
5. Chart is for the convenience of responsible contractors and does not constitute professional engineering advice. All risk is assumed by the user.