



Heat Loss Uninsulated Copper Pipes

Heat loss from 1/2" to 4" uninsulated copper pipes

Heat loss from 1/2" to 4" copper pipes or tubes at various temperature differences between the pipe and the surrounding air, can be found in the table below:

| Nominal bore | | Heat loss for the fluid inside pipe (W/m) | | | Heat loss for the fluid inside pipe (Btu/hr.ft) | | |
|--------------|--------|---|-----|-----|---|-----|-----|
| | | Temperature difference (°C) | | | Temperature difference (°F) | | |
| mm | inches | 22 | 38 | 55 | 70 | 100 | 130 |
| 15 | 1/2 | 21 | 32 | 45 | 22 | 34 | 47 |
| 22 | 3/4 | 28 | 43 | 60 | 29 | 45 | 53 |
| 28 | 1 | 34 | 53 | 76 | 36 | 56 | 79 |
| 35 | 1 1/4 | 41 | 64 | 89 | 43 | 67 | 93 |
| 42 | 1 1/2 | 47 | 74 | 104 | 49 | 77 | 108 |
| 54 | 2 | 59 | 93 | 131 | 62 | 97 | 136 |
| 67 | 2 1/2 | 71 | 111 | 156 | 74 | 116 | 162 |
| 76 | 3 | 83 | 129 | 181 | 87 | 135 | 189 |
| 108 | 4 | 107 | 165 | 232 | 111 | 172 | 241 |