


**Toplotne izgube med delovanjem:  $q = K \cdot (TB - TE)$  [W/m]**

K = koeficient prehoda toplote [W/mK]

TB = srednja delovna temperatura [°C]

TE = srednja temperatura tal [°C]

Nacin polaganja cevi: 2 cevi položeni v zemljo  
 Razmak cevi:  $a = 0.10$  m  
 Višina zaščitne plasti:  $H = 0.60$  m  
 Temperatura tal:  $TE = 10$  °C  
 Koef. toplot. prevodnosti tal:  $\lambda_E = 1.2$  W/mK  
 Koef. toplot. prevod. PUR pene:  $\lambda_{PU} = 0.027$  W/mK  
 Koef. toplot. prevod. PE plašca:  $\lambda_{PE} = 0.43$  W/mK

**Toplotne izgube  $q$  [W/m] za eno cev**

| Tip FLEXWELL               | K-vrednost [W/mK] | Delovna temperatura TB [°C] |      |      |      |      |      |      |      |      |
|----------------------------|-------------------|-----------------------------|------|------|------|------|------|------|------|------|
|                            |                   | 50°                         | 60°  | 70°  | 80°  | 90°  | 100° | 110° | 120° | 130° |
| <b>30/91</b><br>(DN 25)    | 0.165             | 7.4                         | 9.0  | 10.7 | 12.4 | 14.0 | 15.7 | 17.3 | 19.0 | 20.7 |
| <b>30/116</b><br>(DN 25)   | 0.132             | 5.9                         | 7.3  | 8.6  | 9.9  | 11.2 | 12.5 | 13.7 | 15.2 | 16.5 |
| <b>39/116</b><br>(DN 32)   | 0.167             | 7.5                         | 9.2  | 10.9 | 12.5 | 14.2 | 15.9 | 17.5 | 19.2 | 20.9 |
| <b>39/148</b><br>(DN 32)   | 0.132             | 5.9                         | 7.3  | 8.6  | 9.9  | 11.2 | 12.5 | 13.9 | 15.2 | 16.5 |
| <b>60/148</b><br>(DN 50)   | 0.197             | 8.7                         | 10.8 | 12.8 | 14.8 | 16.7 | 18.7 | 20.7 | 22.7 | 24.6 |
| <b>75/171</b><br>(DN 65)   | 0.220             | 10.1                        | 12.4 | 14.6 | 16.9 | 19.1 | 21.4 | 23.6 | 25.9 | 28.1 |
| <b>98/171</b><br>(DN 80)   | 0.333             | 15.0                        | 18.3 | 21.7 | 25.0 | 28.3 | 31.6 | 35.0 | 38.3 | 41.6 |
| <b>98/220</b><br>(DN 80)   | 0.214             | 9.6                         | 11.7 | 13.9 | 16.0 | 18.2 | 20.3 | 22.5 | 24.6 | 26.6 |
| <b>127/220</b><br>(DN 100) | 0.323             | 14.5                        | 17.8 | 21.0 | 24.2 | 27.5 | 30.7 | 33.9 | 37.1 | 40.4 |
| <b>147/220</b><br>(DN 125) | 0.435             | 19.6                        | 23.3 | 28.3 | 32.6 | 37.0 | 41.3 | 45.7 | 50.0 | 54.4 |
| <b>200/310</b><br>(DN 150) | 0.432             | 19.4                        | 23.8 | 28.1 | 32.4 | 36.7 | 41.0 | 45.4 | 49.7 | 54.0 |