

Wyniki - Obiegi

| Typ | Typ | Numer | | L | dn | Q | G | w | R | Dzeta | dP |
|--------|-----|---|--------|------------------|------|----------------|--------|----------|--------|------------|------|
| prz | rur | Pion | Dział. | [m] | [mm] | [W] | [kg/s] | [m/s] | [Pa/m] | | [Pa] |
| Pion 1 | | Obieg przez grzejnik: w pomieszczeniu | | | | | | | | KL | |
| dPcz = | | 9619 Pa | | dPgr = | | 245 Pa | | dH = | | 4.10 m | |
| | | | | | | | | | | Lob = | |
| | | | | | | | | | | 9.5 m | |
| Z | B | POZ | | 0.00 | 25 | 11962 | 0.191 | 0.333 | 70.1 | 0.0 | 0 |
| Z | B | POZ | | 0.00 | 25 | 7716 | 0.123 | 0.215 | 30.9 | 3.0 | 69 |
| Z | A | 1 | | 2.81 | 32 | 7716 | 0.123 | 0.356 | 80.0 | 2.0 | 349 |
| Z | A | 1 | | 0.30 | 32 | 7187 | 0.115 | 0.332 | 70.6 | 0.5 | 49 |
| Z | A | 1 | | 1.00 | 32 | 6780 | 0.108 | 0.313 | 63.6 | 0.5 | 88 |
| Z | A | 1 | | 1.00 | 20 | 1223 | 0.019 | 0.146 | 30.5 | 790.9 | 8420 |
| | | | | RA-N-P | | nastawa 4 | | dn 15 mm | | | |
| | | | | | | autorytet 0.86 | | Kv = | | 0.248 m3/h | |
| | | | | Grzejnik: C22-90 | | n = | | 6 el. | | l = 0.60 m | |
| | | | | | | | | | | 53 | |
| P | A | 1 | | 1.00 | 20 | 1223 | 0.019 | 0.145 | 31.9 | 8.0 | 115 |
| P | A | 1 | | 1.30 | 32 | 6780 | 0.108 | 0.311 | 66.9 | 0.5 | 111 |
| P | A | 1 | | 0.15 | 32 | 7309 | 0.117 | 0.335 | 76.4 | 0.5 | 39 |
| P | A | 1 | | 1.96 | 32 | 7716 | 0.123 | 0.353 | 84.2 | 1.5 | 256 |
| P | B | POZ | | 0.00 | 25 | 7716 | 0.123 | 0.213 | 31.9 | 3.0 | 68 |
| P | B | POZ | | 0.00 | 25 | 11962 | 0.191 | 0.330 | 71.9 | 0.0 | 0 |

| | | | | | | | | | | | |
|--------|---|---|--|------------------|----|----------------|-------|----------|------|------------|------|
| Pion 1 | | Obieg przez grzejnik: w pomieszczeniu | | | | | | | | KL | |
| dPcz = | | 9802 Pa | | dPgr = | | 429 Pa | | dH = | | 7.20 m | |
| | | | | | | | | | | Lob = | |
| | | | | | | | | | | 15.7 m | |
| Z | B | POZ | | 0.00 | 25 | 11962 | 0.191 | 0.333 | 70.1 | 0.0 | 0 |
| Z | B | POZ | | 0.00 | 25 | 7716 | 0.123 | 0.215 | 30.9 | 3.0 | 69 |
| Z | A | 1 | | 2.81 | 32 | 7716 | 0.123 | 0.356 | 80.0 | 2.0 | 349 |
| Z | A | 1 | | 0.30 | 32 | 7187 | 0.115 | 0.332 | 70.6 | 0.5 | 49 |
| Z | A | 1 | | 1.00 | 32 | 6780 | 0.108 | 0.313 | 63.6 | 0.5 | 88 |
| Z | A | 1 | | 1.85 | 32 | 5557 | 0.089 | 0.257 | 44.8 | 0.5 | 99 |
| Z | A | 1 | | 1.25 | 32 | 4566 | 0.073 | 0.211 | 31.7 | 0.5 | 51 |
| Z | A | 1 | | 1.00 | 20 | 1187 | 0.019 | 0.141 | 29.0 | 828.8 | 8308 |
| | | | | RA-N-P | | nastawa 4 | | dn 15 mm | | | |
| | | | | | | autorytet 0.84 | | Kv = | | 0.242 m3/h | |
| | | | | Grzejnik: C22-90 | | n = | | 6 el. | | l = 0.60 m | |
| | | | | | | | | | | 50 | |
| P | A | 1 | | 1.00 | 20 | 1187 | 0.019 | 0.140 | 29.9 | 8.0 | 109 |
| P | A | 1 | | 1.25 | 32 | 4566 | 0.073 | 0.209 | 33.5 | 0.5 | 53 |
| P | A | 1 | | 1.85 | 32 | 5557 | 0.089 | 0.255 | 47.2 | 0.5 | 104 |
| P | A | 1 | | 1.30 | 32 | 6780 | 0.108 | 0.311 | 66.9 | 0.5 | 111 |
| P | A | 1 | | 0.15 | 32 | 7309 | 0.117 | 0.335 | 76.4 | 0.5 | 39 |
| P | A | 1 | | 1.96 | 32 | 7716 | 0.123 | 0.353 | 84.2 | 1.5 | 256 |
| P | B | POZ | | 0.00 | 25 | 7716 | 0.123 | 0.213 | 31.9 | 3.0 | 68 |
| P | B | POZ | | 0.00 | 25 | 11962 | 0.191 | 0.330 | 71.9 | 0.0 | 0 |

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| Typ | Typ | Numer | | L | dn | Q | G | w | R | Dzeta | dP |
|--------|-----|---|--------|------------------|------|----------------|--------|-----------------|--------|--------------|------|
| prz | rur | Pion | Dział. | [m] | [mm] | [W] | [kg/s] | [m/s] | [Pa/m] | | [Pa] |
| Pion 1 | | Obieg przez grzejnik: w pomieszczeniu | | | | | | | | KL | |
| dPcz = | | 9986 Pa | | dPgr = | | 612 Pa | | dH = 10.35 m | | Lob = 22.0 m | |
| Z | B | POZ | | 0.00 | 25 | 11962 | 0.191 | 0.333 | 70.1 | 0.0 | 0 |
| Z | B | POZ | | 0.00 | 25 | 7716 | 0.123 | 0.215 | 30.9 | 3.0 | 69 |
| Z | A | 1 | | 2.81 | 32 | 7716 | 0.123 | 0.356 | 80.0 | 2.0 | 349 |
| Z | A | 1 | | 0.30 | 32 | 7187 | 0.115 | 0.332 | 70.6 | 0.5 | 49 |
| Z | A | 1 | | 1.00 | 32 | 6780 | 0.108 | 0.313 | 63.6 | 0.5 | 88 |
| Z | A | 1 | | 1.85 | 32 | 5557 | 0.089 | 0.257 | 44.8 | 0.5 | 99 |
| Z | A | 1 | | 1.25 | 32 | 4566 | 0.073 | 0.211 | 31.7 | 0.5 | 51 |
| Z | A | 1 | | 1.85 | 25 | 3380 | 0.054 | 0.255 | 60.2 | 1.0 | 144 |
| Z | A | 1 | | 1.30 | 25 | 2389 | 0.038 | 0.180 | 32.9 | 0.5 | 51 |
| Z | A | 1 | | 1.00 | 20 | 1187 | 0.019 | 0.141 | 29.1 | 805.2 | 8068 |
| | | | | RA-N-P | | nastawa 4 | | dn 15 mm | | | |
| | | | | | | autorytet 0.80 | | Kv = 0.246 m3/h | | | |
| | | | | Grzejnik: C22-90 | | n = 6 el. | | l = 0.60 m | | 50 | |
| P | A | 1 | | 1.00 | 20 | 1187 | 0.019 | 0.140 | 29.8 | 9.0 | 118 |
| P | A | 1 | | 1.30 | 25 | 2389 | 0.038 | 0.178 | 34.7 | 0.5 | 53 |
| P | A | 1 | | 1.85 | 25 | 3380 | 0.054 | 0.252 | 63.7 | 1.5 | 166 |
| P | A | 1 | | 1.25 | 32 | 4566 | 0.073 | 0.209 | 33.5 | 0.5 | 53 |
| P | A | 1 | | 1.85 | 32 | 5557 | 0.089 | 0.255 | 47.2 | 0.5 | 104 |
| P | A | 1 | | 1.30 | 32 | 6780 | 0.108 | 0.311 | 66.9 | 0.5 | 111 |
| P | A | 1 | | 0.15 | 32 | 7309 | 0.117 | 0.335 | 76.4 | 0.5 | 39 |
| P | A | 1 | | 1.96 | 32 | 7716 | 0.123 | 0.353 | 84.2 | 1.5 | 256 |
| P | B | POZ | | 0.00 | 25 | 7716 | 0.123 | 0.213 | 31.9 | 3.0 | 68 |
| P | B | POZ | | 0.00 | 25 | 11962 | 0.191 | 0.330 | 71.9 | 0.0 | 0 |

| | | | | | | | | | | | |
|--------|---|---|--|--------|----|--------|-------|--------------|------|--------------|-----|
| Pion 1 | | Obieg przez grzejnik: w pomieszczeniu | | | | | | | | 3D | |
| dPcz = | | 10099 Pa | | dPgr = | | 725 Pa | | dH = 12.15 m | | Lob = 25.6 m | |
| Z | B | POZ | | 0.00 | 25 | 11962 | 0.191 | 0.333 | 70.1 | 0.0 | 0 |
| Z | B | POZ | | 0.00 | 25 | 7716 | 0.123 | 0.215 | 30.9 | 3.0 | 69 |
| Z | A | 1 | | 2.81 | 32 | 7716 | 0.123 | 0.356 | 80.0 | 2.0 | 349 |
| Z | A | 1 | | 0.30 | 32 | 7187 | 0.115 | 0.332 | 70.6 | 0.5 | 49 |
| Z | A | 1 | | 1.00 | 32 | 6780 | 0.108 | 0.313 | 63.6 | 0.5 | 88 |
| Z | A | 1 | | 1.85 | 32 | 5557 | 0.089 | 0.257 | 44.8 | 0.5 | 99 |
| Z | A | 1 | | 1.25 | 32 | 4566 | 0.073 | 0.211 | 31.7 | 0.5 | 51 |
| Z | A | 1 | | 1.85 | 25 | 3380 | 0.054 | 0.255 | 60.2 | 1.0 | 144 |
| Z | A | 1 | | 1.30 | 25 | 2389 | 0.038 | 0.180 | 32.9 | 0.5 | 51 |
| Z | A | 1 | | 1.80 | 20 | 1202 | 0.019 | 0.143 | 29.7 | 1.0 | 64 |

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| Typ | Typ | Numer | | L | dn | Q | G | w | R | Dzeta | dP |
|-----|-----|-------|--------|---|------|-------|--------|-------|--------|-------|------|
| prz | rur | Pion | Dział. | [m] | [mm] | [W] | [kg/s] | [m/s] | [Pa/m] | | [Pa] |
| Z | A | 1 | | 1.00 | 20 | 1202 | 0.019 | 0.143 | 29.8 | 783.0 | 8044 |
| | | | | RA-N-P nastawa 4 dn 15 mm | | | | | | | |
| | | | | autorytet 0.79 Kv = 0.249 m3/h | | | | | | | |
| | | | | Grzejnik: C22-90 n = 8 el. l = 0.80 m | | | | | | | 51 |
| P | A | 1 | | 1.00 | 20 | 1202 | 0.019 | 0.142 | 29.8 | 9.1 | 121 |
| P | A | 1 | | 1.80 | 20 | 1202 | 0.019 | 0.142 | 29.8 | 1.5 | 69 |
| P | A | 1 | | 1.30 | 25 | 2389 | 0.038 | 0.178 | 34.7 | 0.5 | 53 |
| P | A | 1 | | 1.85 | 25 | 3380 | 0.054 | 0.252 | 63.7 | 1.5 | 166 |
| P | A | 1 | | 1.25 | 32 | 4566 | 0.073 | 0.209 | 33.5 | 0.5 | 53 |
| P | A | 1 | | 1.85 | 32 | 5557 | 0.089 | 0.255 | 47.2 | 0.5 | 104 |
| P | A | 1 | | 1.30 | 32 | 6780 | 0.108 | 0.311 | 66.9 | 0.5 | 111 |
| P | A | 1 | | 0.15 | 32 | 7309 | 0.117 | 0.335 | 76.4 | 0.5 | 39 |
| P | A | 1 | | 1.96 | 32 | 7716 | 0.123 | 0.353 | 84.2 | 1.5 | 256 |
| P | B | POZ | | 0.00 | 25 | 7716 | 0.123 | 0.213 | 31.9 | 3.0 | 68 |
| P | B | POZ | | 0.00 | 25 | 11962 | 0.191 | 0.330 | 71.9 | 0.0 | 0 |

| | | | | | | | | | | | | |
|----------------|---|-----|--|---|----|-------|-------|-----------------------|------|--------|------|--------------|
| Pion 1 | | | | Obieg przez grzejnik: | | | | w pomieszczeniu | | | | 2D |
| dPcz = 9918 Pa | | | | dPgr = 545 Pa | | | | dH = 9.05 m | | | | Lob = 19.4 m |
| Z | B | POZ | | 0.00 | 25 | 11962 | 0.191 | 0.333 | 70.1 | 0.0 | 0 | |
| Z | B | POZ | | 0.00 | 25 | 7716 | 0.123 | 0.215 | 30.9 | 3.0 | 69 | |
| Z | A | 1 | | 2.81 | 32 | 7716 | 0.123 | 0.356 | 80.0 | 2.0 | 349 | |
| Z | A | 1 | | 0.30 | 32 | 7187 | 0.115 | 0.332 | 70.6 | 0.5 | 49 | |
| Z | A | 1 | | 1.00 | 32 | 6780 | 0.108 | 0.313 | 63.6 | 0.5 | 88 | |
| Z | A | 1 | | 1.85 | 32 | 5557 | 0.089 | 0.257 | 44.8 | 0.5 | 99 | |
| Z | A | 1 | | 1.25 | 32 | 4566 | 0.073 | 0.211 | 31.7 | 0.5 | 51 | |
| Z | A | 1 | | 1.85 | 25 | 3380 | 0.054 | 0.255 | 60.2 | 1.0 | 144 | |
| Z | A | 1 | | 1.00 | 20 | 991 | 0.016 | 0.118 | 21.1 | 1168.7 | 8160 | |
| | | | | RA-N-P nastawa 3.5 dn 15 mm | | | | | | | | |
| | | | | autorytet 0.81 Kv = 0.204 m3/h | | | | | | | | |
| | | | | Grzejnik: C22-90 n = 7 el. l = 0.70 m | | | | | | | 35 | |
| P | A | 1 | | 1.00 | 20 | 991 | 0.016 | 0.117 | 15.8 | 9.0 | 77 | |
| P | A | 1 | | 1.85 | 25 | 3380 | 0.054 | 0.252 | 63.7 | 1.5 | 166 | |
| P | A | 1 | | 1.25 | 32 | 4566 | 0.073 | 0.209 | 33.5 | 0.5 | 53 | |
| P | A | 1 | | 1.85 | 32 | 5557 | 0.089 | 0.255 | 47.2 | 0.5 | 104 | |
| P | A | 1 | | 1.30 | 32 | 6780 | 0.108 | 0.311 | 66.9 | 0.5 | 111 | |
| P | A | 1 | | 0.15 | 32 | 7309 | 0.117 | 0.335 | 76.4 | 0.5 | 39 | |
| P | A | 1 | | 1.96 | 32 | 7716 | 0.123 | 0.353 | 84.2 | 1.5 | 256 | |
| P | B | POZ | | 0.00 | 25 | 7716 | 0.123 | 0.213 | 31.9 | 3.0 | 68 | |
| P | B | POZ | | 0.00 | 25 | 11962 | 0.191 | 0.330 | 71.9 | 0.0 | 0 | |

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| Typ | Typ | Numer | | L | dn | Q | G | w | R | Dzeta | dP |
|--------|-----|---|--------|------------------|------|----------------|--------|-----------------|--------|--------|------|
| prz | rur | Pion | Dział. | [m] | [mm] | [W] | [kg/s] | [m/s] | [Pa/m] | | [Pa] |
| Pion 1 | | Obieg przez grzejnik: w pomieszczeniu | | | | | | | | 1D | |
| dPcz = | | 9736 Pa | | dPgr = | | 362 Pa | | dH = | | 5.95 m | |
| | | | | | | | | | | Lob = | |
| | | | | | | | | | | 13.2 m | |
| Z | B | POZ | | 0.00 | 25 | 11962 | 0.191 | 0.333 | 70.1 | 0.0 | 0 |
| Z | B | POZ | | 0.00 | 25 | 7716 | 0.123 | 0.215 | 30.9 | 3.0 | 69 |
| Z | A | 1 | | 2.81 | 32 | 7716 | 0.123 | 0.356 | 80.0 | 2.0 | 349 |
| Z | A | 1 | | 0.30 | 32 | 7187 | 0.115 | 0.332 | 70.6 | 0.5 | 49 |
| Z | A | 1 | | 1.00 | 32 | 6780 | 0.108 | 0.313 | 63.6 | 0.5 | 88 |
| Z | A | 1 | | 1.85 | 32 | 5557 | 0.089 | 0.257 | 44.8 | 0.5 | 99 |
| Z | A | 1 | | 1.00 | 20 | 991 | 0.016 | 0.118 | 21.1 | 1201.2 | 8391 |
| | | | | RA-N-P | | nastawa 3.5 | | dn 15 mm | | | |
| | | | | | | autorytet 0.85 | | Kv = 0.201 m3/h | | | |
| | | | | Grzejnik: C22-90 | | n = 7 el. | | l = 0.70 m | | | |
| P | A | 1 | | 1.00 | 20 | 991 | 0.016 | 0.117 | 15.9 | 9.0 | 77 |
| P | A | 1 | | 1.85 | 32 | 5557 | 0.089 | 0.255 | 47.2 | 0.5 | 104 |
| P | A | 1 | | 1.30 | 32 | 6780 | 0.108 | 0.311 | 66.9 | 0.5 | 111 |
| P | A | 1 | | 0.15 | 32 | 7309 | 0.117 | 0.335 | 76.4 | 0.5 | 39 |
| P | A | 1 | | 1.96 | 32 | 7716 | 0.123 | 0.353 | 84.2 | 1.5 | 256 |
| P | B | POZ | | 0.00 | 25 | 7716 | 0.123 | 0.213 | 31.9 | 3.0 | 68 |
| P | B | POZ | | 0.00 | 25 | 11962 | 0.191 | 0.330 | 71.9 | 0.0 | 0 |

| | | | | | | | | | | | |
|--------|---|---|--|------------------|----|----------------|-------|-----------------|------|--------|------|
| Pion 1 | | Obieg przez grzejnik: w pomieszczeniu | | | | | | | | PD | |
| dPcz = | | 9559 Pa | | dPgr = | | 186 Pa | | dH = | | 2.80 m | |
| | | | | | | | | | | Lob = | |
| | | | | | | | | | | 9.6 m | |
| Z | B | POZ | | 0.00 | 25 | 11962 | 0.191 | 0.333 | 70.1 | 0.0 | 0 |
| Z | B | POZ | | 0.00 | 25 | 7716 | 0.123 | 0.215 | 30.9 | 3.0 | 69 |
| Z | A | 1 | | 2.81 | 32 | 7716 | 0.123 | 0.356 | 80.0 | 2.0 | 349 |
| Z | A | 1 | | 0.30 | 32 | 7187 | 0.115 | 0.332 | 70.6 | 0.5 | 49 |
| Z | A | 1 | | 1.00 | 20 | 407 | 0.006 | 0.048 | 3.5 | 1.2 | 5 |
| Z | A | 1 | | 0.32 | 20 | 407 | 0.006 | 0.048 | 3.6 | 0.9 | 2 |
| Z | A | 1 | | 1.00 | 20 | 407 | 0.006 | 0.048 | 3.6 | 7428.2 | 8733 |
| | | | | RA-N-P | | nastawa 2 | | dn 15 mm | | | |
| | | | | | | autorytet 0.90 | | Kv = 0.081 m3/h | | | |
| | | | | Grzejnik: C22-90 | | n = 4 el. | | l = 0.40 m | | | |
| P | A | 1 | | 1.00 | 20 | 407 | 0.006 | 0.048 | 5.0 | 8.6 | 15 |
| P | A | 1 | | 0.19 | 20 | 407 | 0.006 | 0.048 | 5.0 | 0.4 | 1 |
| P | A | 1 | | 1.00 | 20 | 407 | 0.006 | 0.048 | 5.0 | 0.8 | 6 |
| P | A | 1 | | 1.96 | 32 | 7716 | 0.123 | 0.353 | 84.2 | 1.5 | 256 |
| P | B | POZ | | 0.00 | 25 | 7716 | 0.123 | 0.213 | 31.9 | 3.0 | 68 |
| P | B | POZ | | 0.00 | 25 | 11962 | 0.191 | 0.330 | 71.9 | 0.0 | 0 |

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| Typ | Typ | Numer | | L | dn | Q | G | w | R | Dzeta | dP |
|--------|-----|---|--------|------------------|------|----------------|--------|-----------------|--------|-------------|------|
| prz | rur | Pion | Dział. | [m] | [mm] | [W] | [kg/s] | [m/s] | [Pa/m] | | [Pa] |
| Pion 1 | | Obieg przez grzejnik: w pomieszczeniu | | | | | | | | PM | |
| dPcz = | | 9550 Pa | | dPgr = | | 176 Pa | | dH = 2.80 m | | Lob = 6.9 m | |
| Z | B | POZ | | 0.00 | 25 | 11962 | 0.191 | 0.333 | 70.1 | 0.0 | 0 |
| Z | B | POZ | | 0.00 | 25 | 7716 | 0.123 | 0.215 | 30.9 | 3.0 | 69 |
| Z | A | 1 | | 2.81 | 32 | 7716 | 0.123 | 0.356 | 80.0 | 2.0 | 349 |
| Z | A | 1 | | 1.00 | 20 | 529 | 0.008 | 0.063 | 4.6 | 4395.4 | 8734 |
| | | | | RA-N-P | | nastawa 2.5 | | dn 15 mm | | | |
| | | | | | | autorytet 0.90 | | Kv = 0.105 m3/h | | | |
| | | | | Grzejnik: C22-90 | | n = 4 el. | | l = 0.40 m | | 10 | |
| P | A | 1 | | 1.00 | 20 | 529 | 0.008 | 0.062 | 6.1 | 9.0 | 24 |
| P | A | 1 | | 0.15 | 32 | 7309 | 0.117 | 0.335 | 76.4 | 0.5 | 39 |
| P | A | 1 | | 1.96 | 32 | 7716 | 0.123 | 0.353 | 84.2 | 1.5 | 256 |
| P | B | POZ | | 0.00 | 25 | 7716 | 0.123 | 0.213 | 31.9 | 3.0 | 68 |
| P | B | POZ | | 0.00 | 25 | 11962 | 0.191 | 0.330 | 71.9 | 0.0 | 0 |

| | | | | | | | | | | | |
|--------|---|---|--|------------------|----|----------------|-------|-----------------|------|--------------|------|
| Pion 2 | | Obieg przez grzejnik: w pomieszczeniu | | | | | | | | 3M | |
| dPcz = | | 10167 Pa | | dPgr = | | 793 Pa | | dH = 12.15 m | | Lob = 25.6 m | |
| Z | B | POZ | | 0.00 | 25 | 11962 | 0.191 | 0.333 | 70.1 | 0.0 | 0 |
| Z | B | POZ | | 0.00 | 20 | 4246 | 0.068 | 0.187 | 32.2 | 3.5 | 61 |
| Z | A | 2 | | 2.81 | 25 | 4246 | 0.068 | 0.320 | 89.9 | 2.0 | 352 |
| Z | A | 2 | | 3.15 | 25 | 3566 | 0.057 | 0.269 | 66.1 | 0.5 | 226 |
| Z | A | 2 | | 3.10 | 25 | 2434 | 0.039 | 0.183 | 33.9 | 0.5 | 114 |
| Z | A | 2 | | 3.10 | 20 | 1302 | 0.021 | 0.155 | 34.2 | 1.0 | 118 |
| Z | A | 2 | | 1.00 | 20 | 1302 | 0.021 | 0.155 | 34.3 | 685.3 | 8258 |
| | | | | RA-N-P | | nastawa 4.5 | | dn 15 mm | | | |
| | | | | | | autorytet 0.80 | | Kv = 0.266 m3/h | | | |
| | | | | Grzejnik: C22-90 | | n = 9 el. | | l = 0.90 m | | 60 | |
| P | A | 2 | | 1.00 | 20 | 1302 | 0.021 | 0.154 | 36.0 | 9.1 | 143 |
| P | A | 2 | | 3.10 | 20 | 1302 | 0.021 | 0.154 | 36.0 | 1.5 | 129 |
| P | A | 2 | | 3.10 | 25 | 2434 | 0.039 | 0.182 | 36.3 | 0.5 | 121 |
| P | A | 2 | | 3.15 | 25 | 3566 | 0.057 | 0.266 | 70.5 | 0.5 | 240 |
| P | A | 2 | | 2.11 | 25 | 4246 | 0.068 | 0.317 | 95.7 | 1.5 | 275 |
| P | B | POZ | | 0.00 | 20 | 4246 | 0.068 | 0.185 | 33.6 | 4.0 | 69 |
| P | B | POZ | | 0.00 | 25 | 11962 | 0.191 | 0.330 | 71.9 | 0.0 | 0 |

| | | | | | | | | | | | |
|--------|---|---|--|--------|----|--------|-------|-------------|------|--------------|-----|
| Pion 2 | | Obieg przez grzejnik: w pomieszczeniu | | | | | | | | 2M | |
| dPcz = | | 9976 Pa | | dPgr = | | 602 Pa | | dH = 9.05 m | | Lob = 19.4 m | |
| Z | B | POZ | | 0.00 | 25 | 11962 | 0.191 | 0.333 | 70.1 | 0.0 | 0 |
| Z | B | POZ | | 0.00 | 20 | 4246 | 0.068 | 0.187 | 32.2 | 3.5 | 61 |
| Z | A | 2 | | 2.81 | 25 | 4246 | 0.068 | 0.320 | 89.9 | 2.0 | 352 |

Wyniki - Obiegi

| Typ | Typ | Numer | | L | dn | Q | G | w | R | Dzeta | dP |
|-----|-----|-------|--------|---------------------------------------|------|-------|--------|-------|--------|-------|------|
| prz | rur | Pion | Dział. | [m] | [mm] | [W] | [kg/s] | [m/s] | [Pa/m] | | [Pa] |
| Z | A | 2 | | 3.15 | 25 | 3566 | 0.057 | 0.269 | 66.1 | 0.5 | 226 |
| Z | A | 2 | | 3.10 | 25 | 2434 | 0.039 | 0.183 | 33.9 | 0.5 | 114 |
| Z | A | 2 | | 1.00 | 20 | 1132 | 0.018 | 0.135 | 26.8 | 918.4 | 8368 |
| | | | | RA-N-P nastawa 4 dn 15 mm | | | | | | | |
| | | | | autorytet 0.83 Kv = 0.230 m3/h | | | | | | | |
| | | | | Grzejnik: C22-90 n = 8 el. l = 0.80 m | | | | | | | 45 |
| P | A | 2 | | 1.00 | 20 | 1132 | 0.018 | 0.134 | 24.7 | 9.0 | 105 |
| P | A | 2 | | 3.10 | 25 | 2434 | 0.039 | 0.182 | 36.3 | 0.5 | 121 |
| P | A | 2 | | 3.15 | 25 | 3566 | 0.057 | 0.266 | 70.5 | 0.5 | 240 |
| P | A | 2 | | 2.11 | 25 | 4246 | 0.068 | 0.317 | 95.7 | 1.5 | 275 |
| P | B | POZ | | 0.00 | 20 | 4246 | 0.068 | 0.185 | 33.6 | 4.0 | 69 |
| P | B | POZ | | 0.00 | 25 | 11962 | 0.191 | 0.330 | 71.9 | 0.0 | 0 |

| | | | | | | | | | | | | |
|----------------|---|-----|--|---------------------------------------|----|-------|-------------|-------|------------------------|-------|------|----|
| Pion 2 | | | | Obieg przez grzejnik: | | | | | w pomieszczeniu: | | | 1M |
| dPcz = 9774 Pa | | | | dPgr = 401 Pa | | | dH = 5.95 m | | Lob = 13.2 m | | | |
| Z | B | POZ | | 0.00 | 25 | 11962 | 0.191 | 0.333 | 70.1 | 0.0 | 0 | |
| Z | B | POZ | | 0.00 | 20 | 4246 | 0.068 | 0.187 | 32.2 | 3.5 | 61 | |
| Z | A | 2 | | 2.81 | 25 | 4246 | 0.068 | 0.320 | 89.9 | 2.0 | 352 | |
| Z | A | 2 | | 3.15 | 25 | 3566 | 0.057 | 0.269 | 66.1 | 0.5 | 226 | |
| Z | A | 2 | | 1.00 | 20 | 1132 | 0.018 | 0.135 | 26.8 | 921.3 | 8400 | |
| | | | | RA-N-P nastawa 4 dn 15 mm | | | | | | | | |
| | | | | autorytet 0.85 Kv = 0.230 m3/h | | | | | | | | |
| | | | | Grzejnik: C22-90 n = 8 el. l = 0.80 m | | | | | | | 45 | |
| P | A | 2 | | 1.00 | 20 | 1132 | 0.018 | 0.134 | 24.9 | 9.0 | 105 | |
| P | A | 2 | | 3.15 | 25 | 3566 | 0.057 | 0.266 | 70.5 | 0.5 | 240 | |
| P | A | 2 | | 2.11 | 25 | 4246 | 0.068 | 0.317 | 95.7 | 1.5 | 275 | |
| P | B | POZ | | 0.00 | 20 | 4246 | 0.068 | 0.185 | 33.6 | 4.0 | 69 | |
| P | B | POZ | | 0.00 | 25 | 11962 | 0.191 | 0.330 | 71.9 | 0.0 | 0 | |

| | | | | | | | | | | | | |
|----------------|---|-----|--|---------------------------------------|----|-------|-------------|-------|------------------------|--------|------|-------|
| Pion 2 | | | | Obieg przez grzejnik: | | | | | w pomieszczeniu: | | | P.SOC |
| dPcz = 9565 Pa | | | | dPgr = 191 Pa | | | dH = 2.80 m | | Lob = 6.9 m | | | |
| Z | B | POZ | | 0.00 | 25 | 11962 | 0.191 | 0.333 | 70.1 | 0.0 | 0 | |
| Z | B | POZ | | 0.00 | 20 | 4246 | 0.068 | 0.187 | 32.2 | 3.5 | 61 | |
| Z | A | 2 | | 2.81 | 25 | 4246 | 0.068 | 0.320 | 89.9 | 2.0 | 352 | |
| Z | A | 2 | | 1.00 | 20 | 680 | 0.011 | 0.081 | 6.8 | 2665.8 | 8754 | |
| | | | | RA-N-P nastawa 3 dn 15 mm | | | | | | | | |
| | | | | autorytet 0.91 Kv = 0.135 m3/h | | | | | | | | |
| | | | | Grzejnik: C22-90 n = 5 el. l = 0.50 m | | | | | | | 16 | |
| P | A | 2 | | 1.00 | 20 | 680 | 0.011 | 0.080 | 7.8 | 9.0 | 37 | |
| P | A | 2 | | 2.11 | 25 | 4246 | 0.068 | 0.317 | 95.7 | 1.5 | 275 | |

Wyniki - Obiegi

| Typ | Typ | Numer | | L | dn | Q | G | w | R | Dzeta | dP |
|-----|-----|-------|--------|------|------|-------|--------|-------|--------|-------|------|
| prz | rur | Pion | Dział. | [m] | [mm] | [W] | [kg/s] | [m/s] | [Pa/m] | | [Pa] |
| P | B | POZ | | 0.00 | 20 | 4246 | 0.068 | 0.185 | 33.6 | 4.0 | 69 |
| P | B | POZ | | 0.00 | 25 | 11962 | 0.191 | 0.330 | 71.9 | 0.0 | 0 |