

### Общие параметры

Активная база данных: 1 Потребитель: Пушкина 33  
Поставщик:

| Дата        | БД  | НС  |
|-------------|-----|-----|
| 23.03.21    | 1   | НС! |
| 24.03.21    | 1   | НС! |
| 25.03.21    | 1   | НС! |
| 26.03.21    | 1   | НС! |
| 27.03.21    | 1   | НС! |
| 28.03.21    | 1   | НС! |
| 29.03.21    | 1   | НС! |
| 30.03.21    | 1   | НС! |
| 31.03.21    | 1   | НС! |
| 01.04.21    | 1   | НС! |
| 02.04.21    | 1   | НС! |
| 03.04.21    | 1   | НС! |
| 04.04.21    | 1   | НС! |
| 05.04.21    | 1   | НС! |
| 06.04.21    | 1   | НС! |
| 07.04.21    | 1   | НС! |
| 08.04.21    | 1   | НС! |
| 09.04.21    | 1   | НС! |
| 10.04.21    | 1   | НС! |
| 11.04.21    | 1   | НС! |
| 12.04.21    | 1   | НС! |
| 13.04.21    | 1   | НС! |
| 14.04.21    | 1   | НС! |
| 15.04.21    | 1   | НС! |
| 16.04.21    | 1   | НС! |
| 17.04.21    | 1   | НС! |
| 18.04.21    | 1   | НС! |
| 19.04.21    | 1   | НС! |
| 20.04.21    | 1   | НС! |
| 21.04.21    | 1   | НС! |
| 22.04.21    | 1   | НС! |
| Среднее     | --- | --- |
| Итого       | --- | --- |
| На 23.03.21 | --- | --- |
| На 22.04.21 | --- | --- |

Ответственный за учет \_\_\_\_\_

Отчет принят " \_\_ " \_\_\_\_\_ 20 \_\_ г. \_\_\_\_\_ / \_\_\_\_\_ /

Тепловой ввод 1. Схема 3

Активная база данных: 1 Потребитель: Пушкина 33  
Поставщик:

| Дата        | Схема | Qo,<br>Гкал | Qr,<br>Гкал | M1,<br>т  | M2,<br>т  | M3,<br>т | Mr,<br>т | V1,<br>м3 | V2,<br>м3 | V3,<br>м3 | dV,<br>м3 | t1,<br>°C | t2,<br>°C | t3,<br>°C | dt,<br>°C | P1,<br>кгс/см2 | P2,<br>кгс/см2 | BHP,<br>ч | BOC,<br>ч | HC<br>Qo | HC<br>Qr | HC<br>M1 | HC<br>M2 | HC<br>M3 | HC<br>Mr | HC<br>V1 | HC<br>V2 | HC<br>V3 | HC<br>t1 | HC<br>t2 | HC<br>t3 | HC<br>dt | HC<br>P1 | HC<br>P2 |     |     |
|-------------|-------|-------------|-------------|-----------|-----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|----------------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----|-----|
| 23.03.21    | 3     | 3,200       | 0,000       | 120,230   | 107,970   | 0,000    | 12,260   | 123,000   | 108,620   | 0,000     | 14,380    | 66,19     | 43,49     | 43,48     | 22,70     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| 24.03.21    | 3     | 3,279       | 0,000       | 119,540   | 107,650   | 0,000    | 11,890   | 122,330   | 108,380   | 0,000     | 13,950    | 67,65     | 44,09     | 44,09     | 23,56     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| 25.03.21    | 3     | 3,169       | 0,000       | 119,260   | 107,880   | 0,000    | 11,380   | 122,010   | 108,560   | 0,000     | 13,450    | 66,24     | 43,28     | 43,27     | 22,96     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| 26.03.21    | 3     | 3,196       | 0,000       | 119,820   | 107,940   | 0,000    | 11,880   | 122,610   | 108,540   | 0,000     | 14,070    | 66,15     | 43,26     | 43,25     | 22,89     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| 27.03.21    | 3     | 3,256       | 0,000       | 121,040   | 107,740   | 0,000    | 13,300   | 123,920   | 108,300   | 0,000     | 15,620    | 65,87     | 43,14     | 43,13     | 22,73     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| 28.03.21    | 3     | 3,155       | 0,000       | 120,180   | 108,420   | 0,000    | 11,760   | 123,170   | 108,820   | 0,000     | 14,350    | 65,91     | 43,40     | 43,39     | 22,51     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| 29.03.21    | 3     | 3,175       | 0,000       | 121,630   | 108,410   | 0,000    | 13,220   | 124,610   | 108,830   | 0,000     | 15,780    | 65,32     | 43,37     | 43,36     | 21,95     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| 30.03.21    | 3     | 3,175       | 0,000       | 119,080   | 107,830   | 0,000    | 11,250   | 121,760   | 108,550   | 0,000     | 13,210    | 66,64     | 43,62     | 43,61     | 23,02     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| 31.03.21    | 3     | 3,316       | 0,000       | 119,450   | 106,970   | 0,000    | 12,480   | 122,270   | 107,660   | 0,000     | 14,610    | 67,32     | 43,55     | 43,54     | 23,77     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| 01.04.21    | 3     | 3,342       | 0,000       | 117,210   | 106,010   | 0,000    | 11,200   | 120,010   | 106,740   | 0,000     | 13,270    | 68,64     | 43,82     | 43,81     | 24,82     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| 02.04.21    | 3     | 3,361       | 0,000       | 117,690   | 105,560   | 0,000    | 12,130   | 120,520   | 106,240   | 0,000     | 14,280    | 68,55     | 44,01     | 44,00     | 24,54     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| 03.04.21    | 3     | 3,257       | 0,000       | 116,980   | 104,990   | 0,000    | 11,990   | 119,810   | 105,620   | 0,000     | 14,190    | 67,46     | 43,56     | 43,54     | 23,90     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| 04.04.21    | 3     | 3,283       | 0,000       | 117,700   | 105,460   | 0,000    | 12,240   | 120,570   | 106,040   | 0,000     | 14,530    | 67,60     | 43,70     | 43,69     | 23,90     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| 05.04.21    | 3     | 3,204       | 0,000       | 116,260   | 104,190   | 0,000    | 12,070   | 119,090   | 104,750   | 0,000     | 14,340    | 67,05     | 43,47     | 43,46     | 23,58     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| 06.04.21    | 3     | 3,122       | 0,000       | 117,320   | 105,430   | 0,000    | 11,890   | 120,190   | 105,940   | 0,000     | 14,250    | 66,67     | 44,00     | 43,98     | 22,67     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| 07.04.21    | 3     | 3,205       | 0,000       | 118,690   | 106,550   | 0,000    | 12,140   | 121,470   | 107,230   | 0,000     | 14,240    | 67,45     | 44,48     | 44,47     | 22,97     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| 08.04.21    | 3     | 3,309       | 0,000       | 120,340   | 106,800   | 0,000    | 13,540   | 123,180   | 107,430   | 0,000     | 15,750    | 67,13     | 44,00     | 43,99     | 23,13     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| 09.04.21    | 3     | 3,229       | 0,000       | 118,880   | 106,860   | 0,000    | 12,020   | 121,800   | 107,430   | 0,000     | 14,370    | 67,03     | 43,75     | 43,74     | 23,28     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| 10.04.21    | 3     | 3,181       | 0,000       | 118,290   | 107,010   | 0,000    | 11,280   | 121,440   | 107,310   | 0,000     | 14,130    | 66,99     | 43,76     | 43,75     | 23,23     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| 11.04.21    | 3     | 3,254       | 0,000       | 118,870   | 107,150   | 0,000    | 11,720   | 121,800   | 107,690   | 0,000     | 14,110    | 67,34     | 43,76     | 43,75     | 23,58     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| 12.04.21    | 3     | 3,229       | 0,000       | 119,250   | 107,410   | 0,000    | 11,840   | 122,240   | 107,930   | 0,000     | 14,310    | 67,21     | 43,99     | 43,99     | 23,22     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| 13.04.21    | 3     | 3,170       | 0,000       | 119,430   | 107,530   | 0,000    | 11,900   | 122,160   | 108,180   | 0,000     | 13,980    | 66,35     | 43,66     | 43,65     | 22,69     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| 14.04.21    | 3     | 3,371       | 0,000       | 122,440   | 108,070   | 0,000    | 14,370   | 125,290   | 108,700   | 0,000     | 16,590    | 66,78     | 43,76     | 43,76     | 23,02     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| 15.04.21    | 3     | 3,231       | 0,000       | 119,110   | 107,050   | 0,000    | 12,060   | 122,020   | 107,590   | 0,000     | 14,430    | 66,81     | 43,58     | 43,57     | 23,23     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| 16.04.21    | 3     | 3,234       | 0,000       | 119,000   | 107,210   | 0,000    | 11,790   | 121,840   | 107,880   | 0,000     | 13,960    | 67,83     | 44,58     | 44,56     | 23,25     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| 17.04.21    | 3     | 3,302       | 0,000       | 118,990   | 105,630   | 0,000    | 13,360   | 121,820   | 106,270   | 0,000     | 15,550    | 67,06     | 43,63     | 43,62     | 23,43     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| 18.04.21    | 3     | 3,327       | 0,000       | 117,770   | 105,770   | 0,000    | 12,000   | 120,810   | 106,240   | 0,000     | 14,570    | 68,12     | 43,79     | 43,78     | 24,33     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| 19.04.21    | 3     | 3,245       | 0,000       | 117,440   | 105,580   | 0,000    | 11,860   | 120,130   | 106,340   | 0,000     | 13,790    | 67,19     | 43,42     | 43,41     | 23,77     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| 20.04.21    | 3     | 3,507       | 0,000       | 115,640   | 103,950   | 0,000    | 11,690   | 118,680   | 104,550   | 0,000     | 14,130    | 70,20     | 43,79     | 43,78     | 26,41     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| 21.04.21    | 3     | 3,550       | 0,000       | 116,700   | 105,230   | 0,000    | 11,470   | 119,890   | 105,800   | 0,000     | 14,090    | 71,37     | 44,86     | 44,85     | 26,51     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| 22.04.21    | 3     | 3,386       | 0,000       | 117,860   | 104,980   | 0,000    | 12,880   | 120,580   | 105,740   | 0,000     | 14,840    | 68,07     | 43,53     | 43,52     | 24,54     | 6,000          | 5,000          | 24,00     | 0,00      | 0        | 0        | 0        | 0        | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0   |     |
| Среднее     | 3     | 3,265       | 0,000       | 118,777   | 106,620   | 0,000    | 12,157   | 121,646   | 107,223   | 0,000     | 14,423    | 67,30     | 43,75     | 43,74     | 23,55     | 6,000          | 5,000          | 24,00     | 0,00      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | --- | --- |
| Итого       | 3     | 101,220     | 0,000       | 3682,090  | 3305,230  | 0,000    | 376,860  | 3771,020  | 3323,900  | 0,000     | 447,120   | 67,30     | 43,75     | 43,74     | 23,55     | 6,000          | 5,000          | 744,00    | 0,00      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | --- | --- |
| На 23.03.21 | 3     | 858,420     | 9,523       | 21765,890 | 19223,300 | 183,510  | 2542,590 | 22553,660 | 19372,600 | 186,300   | 3181,060  | 67,31     | 44,01     | 44,00     | 23,30     | 6,000          | 5,000          | 5806,00   | 2,00      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | --- | --- |
| На 22.04.21 | 3     | 959,640     | 9,523       | 25447,980 | 22528,530 | 183,510  | 2919,450 | 26324,680 | 22696,500 | 186,300   | 3628,180  | 68,07     | 43,53     | 43,52     | 24,54     | 6,000          | 5,000          | 6550,00   | 2,00      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | ---      | --- | --- |

Ответственный за учет \_\_\_\_\_

Отчет принят " \_\_ " \_\_\_\_\_ 20\_\_ г. \_\_\_\_\_ / \_\_\_\_\_ /

Тепловой ввод 2. Схема 9

Активная база данных: 1 Потребитель: Пушкина 33  
Поставщик:

| Дата        | Схема | V1,<br>м3 | V2,<br>м3 | dV,<br>м3 | ВНР,<br>ч | ВОС,<br>ч | НС<br>V1 | НС<br>V2 |
|-------------|-------|-----------|-----------|-----------|-----------|-----------|----------|----------|
| 23.03.21    | 9     | 12,720    | 16,630    | -3,910    | 24,00     | 0,00      | 0        | 0        |
| 24.03.21    | 9     | 12,130    | 16,300    | -4,170    | 24,00     | 0,00      | 0        | 0        |
| 25.03.21    | 9     | 11,750    | 15,800    | -4,050    | 24,00     | 0,00      | 0        | 0        |
| 26.03.21    | 9     | 12,370    | 17,250    | -4,880    | 24,00     | 0,00      | 0        | 0        |
| 27.03.21    | 9     | 13,890    | 18,340    | -4,450    | 24,00     | 0,00      | 0        | 0        |
| 28.03.21    | 9     | 12,620    | 19,250    | -6,630    | 24,00     | 0,00      | 0        | 0        |
| 29.03.21    | 9     | 14,040    | 18,330    | -4,290    | 24,00     | 0,00      | 0        | 0        |
| 30.03.21    | 9     | 11,490    | 13,690    | -2,200    | 24,00     | 0,00      | 0        | 0        |
| 31.03.21    | 9     | 12,920    | 16,670    | -3,750    | 24,00     | 0,00      | 0        | 0        |
| 01.04.21    | 9     | 11,490    | 13,920    | -2,430    | 24,00     | 0,00      | 0        | 0        |
| 02.04.21    | 9     | 12,510    | 15,460    | -2,950    | 24,00     | 0,00      | 0        | 0        |
| 03.04.21    | 9     | 12,430    | 18,320    | -5,890    | 24,00     | 0,00      | 0        | 0        |
| 04.04.21    | 9     | 12,810    | 19,120    | -6,310    | 24,00     | 0,00      | 0        | 0        |
| 05.04.21    | 9     | 12,660    | 16,060    | -3,400    | 24,00     | 0,00      | 0        | 0        |
| 06.04.21    | 9     | 12,610    | 15,610    | -3,000    | 24,00     | 0,00      | 0        | 0        |
| 07.04.21    | 9     | 12,510    | 15,450    | -2,940    | 24,00     | 0,00      | 0        | 0        |
| 08.04.21    | 9     | 14,120    | 17,670    | -3,550    | 24,00     | 0,00      | 0        | 0        |
| 09.04.21    | 9     | 12,710    | 16,420    | -3,710    | 24,00     | 0,00      | 0        | 0        |
| 10.04.21    | 9     | 12,410    | 16,380    | -3,970    | 24,00     | 0,00      | 0        | 0        |
| 11.04.21    | 9     | 12,430    | 19,730    | -7,300    | 24,00     | 0,00      | 0        | 0        |
| 12.04.21    | 9     | 12,680    | 16,450    | -3,770    | 24,00     | 0,00      | 0        | 0        |
| 13.04.21    | 9     | 12,330    | 15,460    | -3,130    | 24,00     | 0,00      | 0        | 0        |
| 14.04.21    | 9     | 14,960    | 18,070    | -3,110    | 24,00     | 0,00      | 0        | 0        |
| 15.04.21    | 9     | 12,780    | 16,120    | -3,340    | 24,00     | 0,00      | 0        | 0        |
| 16.04.21    | 9     | 12,210    | 15,210    | -3,000    | 24,00     | 0,00      | 0        | 0        |
| 17.04.21    | 9     | 13,830    | 19,660    | -5,830    | 24,00     | 0,00      | 0        | 0        |
| 18.04.21    | 9     | 12,800    | 16,960    | -4,160    | 24,00     | 0,00      | 0        | 0        |
| 19.04.21    | 9     | 12,000    | 14,990    | -2,990    | 24,00     | 0,00      | 0        | 0        |
| 20.04.21    | 9     | 12,270    | 17,180    | -4,910    | 24,00     | 0,00      | 0        | 0        |
| 21.04.21    | 9     | 12,130    | 17,270    | -5,140    | 24,00     | 0,00      | 0        | 0        |
| 22.04.21    | 9     | 13,080    | 16,490    | -3,410    | 24,00     | 0,00      | 0        | 0        |
| Среднее     | 9     | 12,700    | 16,783    | -4,083    | 24,00     | 0,00      | ---      | ---      |
| Итого       | 9     | 393,690   | 520,260   | -126,570  | 744,00    | 0,00      | ---      | ---      |
| На 23.03.21 | 9     | 2856,050  | 4529,650  | -1673,600 | 5808,00   | 0,00      | ---      | ---      |
| На 22.04.21 | 9     | 3249,740  | 5049,910  | -1800,170 | 6552,00   | 0,00      | ---      | ---      |

Ответственный за учет \_\_\_\_\_

Отчет принят " \_\_ " \_\_\_\_\_ 20\_\_ г. \_\_\_\_\_ / \_\_\_\_\_ /

## Принятые обозначения

### Измеряемые параметры

**Qo** - тепловая энергия полная, Гкал (ГДж, MWh)

**Qr** - тепловая энергия в трубопроводе 3, соответствующая Mr, Гкал (ГДж, MWh)

**Mi** - масса воды в i-ом трубопроводе, т

**Mr** - масса воды, отобранной из системы (разность значений M1-M2), т

**Gi** - объемный расход в i-ом трубопроводе, м³/ч

**ti** - температура теплоносителя в i-ом трубопроводе, °C

**dt** - разность температур теплоносителя, °C

**Pi** - давление теплоносителя в i-ом трубопроводе, кгс/см² (МПа, bar)

**tw** - температура воздуха, °C

**twх** - температура холодной воды, °C

**ВНР** - время нормальной работы, ч

**ВОС** - время отсутствия счета, ч