

С Е Р И Я 81

ЖИЛЫЕ ДОМА ИЗ КРУПНЫХ ЛЕТКОБЕТОННЫХ БЛОКОВ

ТИПОВОЙ ПРОЕКТ 113-81-3/1.2

Дом 9-этажный 6-секционный 198-квартирный

РАСЧЕТНЫЕ ТАБЛИЦЫ СИСТЕМЫ ОТОПЛЕНИЯ НА ТЕМПЕРАТУРУ  $-35^{\circ}\text{C}$   
(ТРОЙНОЕ ОСТЕКЛЕНИЕ В ОДИНАРНОМ И СПАРЕННОМ ПЕРЕИДЕТАХ)

(стр. I- 39 )

Часть 0. Общая часть. Раздел 0-2.4

**17432-05**  
ЦЕНА 0-76

С Е Р И Я 81

17432-05

ЖИЛЫЕ ДОМА ИЗ КРУПНЫХ ЛЕГКОБЕТОННЫХ БЛОКОВ

ТИПОВОЙ ПРОЕКТ 113-81-3/1.2

Дом 9-этажный 6-секционный 198-квартирный

РАСЧЕТНЫЕ ТАБЛИЦЫ СИСТЕМЫ ОТОПЛЕНИЯ НА ТЕМПЕРАТУРУ  $-35^{\circ}\text{C}$

(ТРОЙНОЕ ОСТЕКЛЕНИЕ В ОДИНАРНОМ И СПАРЕННОМ ПЕРЕПЛЕТАХ)

(стр. 1-39)

Часть 0. Общая часть. Раздел 0-2.4

Разработан ЦНИИЭП жилища

Введен в действие  
приказом по  
ЦНИИЭП жилища от  
" 30 " 03 1981 г.  
№ 108

Руководитель отдела

Гл. специалист

Проверил

(Раковщик)

(Гомберг)

(Сосонко)

Москва - 1981 г.

СОДЕРЖАНИЕ АЛЬБОМА

17432-05

Стр.

1. Жилой дом в осях I-I8  
с кранами двойной регулировки

4-12

2. Жилой дом в осях I-I8  
с трехходовыми кранами.

13-21

3. Жилой дом в осях I8-36  
с кранами двойной регулировки

22-30

4. Жилой дом в осях I8-36  
с трехходовыми кранами

31-39

СИСТЕМА С КРАНАМИ ДВОЙНОЙ РЕГУЛИРОВКИ

НАРУЖНАЯ ТЕМПЕРАТУРА -35

Н НАС. ФАКТИЧ. = 1526,4

Q СИСТЕМЫ = 358153

ТАБЛИЦА ДИАМЕТРОВ МАГИСТРАЛЬНЫХ УЧАСТКОВ,  
МАГИСТРАЛЕЙ И ГЛАВНОГО СТОЯКА

| №<br>ВЕТВИ | № МАГИСТР.<br>УЧАСТКА | ДИАМЕТР<br>УЧАСТКА |
|------------|-----------------------|--------------------|
| 1          | 01                    | 32                 |
| 1          | 02                    | 40                 |
| 1          | 03                    | 40                 |
| 1          | 04                    | 50                 |
| 1          | 05                    | 50                 |
| 1          | М1                    | 50                 |
| 2          | 01                    | 32                 |
| 2          | 02                    | 40                 |
| 2          | 03                    | 50                 |
| 2          | 04                    | 50                 |
| 2          | 05                    | 50                 |
| 2          | 06                    | 70                 |
| 2          | М1                    | 70                 |
| 3          | 01                    | 32                 |
| 3          | 02                    | 32                 |
| 3          | 03                    | 32                 |
| 3          | 04                    | 40                 |
| 3          | 05                    | 50                 |
| 3          | 06                    | 50                 |
| 3          | М2                    | 50                 |
| 4          | 01                    | 32                 |
| 4          | 02                    | 32                 |
| 4          | 03                    | 40                 |
| 4          | 04                    | 40                 |
| 4          | 05                    | 50                 |
| 4          | 06                    | 50                 |
| 4          | 07                    | 50                 |
| 4          | М2                    | 50                 |
| -          | МГ-1                  | 70                 |
| -          | МО-1                  | 70                 |
| -          | МГ-2                  | 80                 |
| -          | МО-2                  | 80                 |
| -          | ГЛ.С                  | 80                 |

## ТАБЛИЦЫ РАСЧЕТА НАГРЕВАТЕЛЬНЫХ ПРИБОРОВ

| СТОЯК- 1 |     |    |      | СТОЯК- 2 |      |    |     | СТОЯК- 3 |      |      |      |
|----------|-----|----|------|----------|------|----|-----|----------|------|------|------|
| IN       | Д   | Ч  | С    | F        | Q    | IN | Д   | Ч        | С    | F    | Q    |
| ЭТ       | УЗ  | СК | ПРИБ | ПРИБ     | ПРИБ | ЭТ | УЗ  | СК       | ПРИБ | ПРИБ | ПРИБ |
| Г        | 125 | -  | -    | -        | -    | Г  | 115 | -        | -    | -    | -    |
| О        | 125 | -  | -    | -        | -    | О  | 120 | -        | -    | -    | -    |
| 1        | 20  | 5  | 1.77 | 1085     |      | 1  | 20  | 6        | 2.04 | 1175 |      |
| 2        | 20  | 4  | 1.41 | 869      |      | 2  | 20  | 5        | 1.62 | 940  |      |
| 3        | 20  | 4  | 1.46 | 869      |      | 3  | 20  | 5        | 1.73 | 940  |      |
| 4        | 20  | 4  | 1.52 | 869      |      | 4  | 20  | 5        | 1.84 | 940  |      |
| 5        | 20  | 5  | 1.58 | 869      |      | 5  | 20  | 6        | 1.96 | 940  |      |
| 6        | 20  | 5  | 1.65 | 869      |      | 6  | 20  | 6        | 2.10 | 940  |      |
| 7        | 20  | 5  | 1.72 | 869      |      | 7  | 20  | 7        | 2.25 | 940  |      |
| 8        | 20  | 5  | 1.80 | 869      |      | 8  | 20  | 7        | 2.44 | 940  |      |
| 9        | 20  | 8  | 2.59 | 1139     |      | 9  | 20  | 11       | 3.79 | 1240 |      |
| 9        | 25  | 7  | 2.42 | 1240     |      | 9  | 20  | 4        | 1.33 | 730  |      |
| 8        | 25  | 5  | 1.84 | 940      |      | 8  | 20  | 2        | .41  | 340  |      |
| 7        | 25  | 6  | 1.96 | 940      |      | 7  | 20  | 2        | .43  | 340  |      |
| 6        | 25  | 6  | 2.09 | 940      |      | 6  | 20  | 2        | .49  | 350  |      |
| 5        | 25  | 7  | 2.22 | 940      |      | 5  | 20  | 2        | .52  | 350  |      |
| 4        | 25  | 7  | 2.39 | 940      |      | 4  | 20  | 2        | .58  | 360  |      |
| 3        | 25  | 8  | 2.56 | 940      |      | 3  | 20  | 2        | .64  | 370  |      |
| 2        | 25  | 8  | 2.77 | 940      |      | 2  | 20  | 2        | .71  | 380  |      |
| 1        | 25  | 11 | 3.86 | 1175     |      | 1  | 20  | 5        | 1.60 | 640  |      |
|          |     |    |      |          |      |    |     |          |      |      |      |
|          |     |    |      |          |      |    |     |          |      |      |      |
|          |     |    |      |          |      |    |     |          |      |      |      |
| СТОЯК- 4 |     |    |      | СТОЯК- 5 |      |    |     | СТОЯК- 6 |      |      |      |
| IN       | Д   | Ч  | С    | F        | Q    | IN | Д   | Ч        | С    | F    | Q    |
| ЭТ       | УЗ  | СК | ПРИБ | ПРИБ     | ПРИБ | ЭТ | УЗ  | СК       | ПРИБ | ПРИБ | ПРИБ |
| Г        | 115 | -  | -    | -        | -    | Г  | 115 | -        | -    | -    | -    |
| О        | 120 | -  | -    | -        | -    | О  | 120 | -        | -    | -    | -    |
| 1        | 15  | 0  | .00  | 0        |      | 1  | 15  | 5        | 1.82 | 1090 |      |
| 2        | 15  | 0  | .00  | 0        |      | 2  | 15  | 3        | 1.13 | 730  |      |
| 3        | 15  | 0  | .00  | 0        |      | 3  | 15  | 3        | 1.18 | 730  |      |
| 4        | 15  | 0  | .00  | 0        |      | 4  | 20  | 3        | 1.18 | 730  |      |
| 5        | 15  | 0  | .00  | 0        |      | 5  | 20  | 4        | 1.23 | 730  |      |
| 6        | 15  | 0  | .00  | 0        |      | 6  | 20  | 4        | 1.31 | 730  |      |
| 7        | 15  | 0  | .00  | 0        |      | 7  | 20  | 4        | 1.39 | 730  |      |
| 8        | 15  | 0  | .00  | 0        |      | 8  | 20  | 4        | 1.47 | 730  |      |
| 9        | 15  | 0  | .00  | 0        |      | 9  | 20  | 10       | 3.29 | 1270 |      |
| 9        | 15  | 7  | 2.32 | 1590     |      | 9  | 20  | 4        | 1.21 | 750  |      |
| 8        | 20  | 3  | 1.14 | 960      |      | 8  | 20  | 2        | .31  | 330  |      |
| 7        | 20  | 4  | 1.22 | 960      |      | 7  | 20  | 2        | .33  | 330  |      |
| 6        | 20  | 4  | 1.34 | 960      |      | 6  | 20  | 2        | .39  | 340  |      |
| 5        | 20  | 4  | 1.45 | 960      |      | 5  | 20  | 2        | .44  | 350  |      |
| 4        | 20  | 5  | 1.58 | 960      |      | 4  | 20  | 2        | .47  | 350  |      |
| 3        | 20  | 5  | 1.74 | 960      |      | 3  | 20  | 2        | .53  | 360  |      |
| 2        | 20  | 6  | 1.91 | 960      |      | 2  | 20  | 2        | .59  | 370  |      |
| 1        | 20  | 12 | 3.93 | 1450     |      | 1  | 20  | 4        | 1.47 | 650  |      |

| СТОЯК- 7 |    |    |      | СТОЯК- 8 |    |    |      | СТОЯК- 9 |    |    |      |
|----------|----|----|------|----------|----|----|------|----------|----|----|------|
| IN       | Д  | Ч  | С    | IN       | Д  | Ч  | С    | IN       | Д  | Ч  | С    |
| ЭТ       | УЗ | СК | ПРИБ | ЭТ       | УЗ | СК | ПРИБ | ЭТ       | УЗ | СК | ПРИБ |
| Г        | 15 | -  | -    | Г        | 15 | -  | -    | Г        | 15 | -  | -    |
| 0        | 20 | -  | -    | 0        | 20 | -  | -    | 0        | 20 | -  | -    |
| 1        | 15 | 0  | .00  | 1        | 20 | 5  | 1.80 | 1        | 15 | 0  | .00  |
| 2        | 15 | 0  | .00  | 2        | 20 | 3  | 1.10 | 2        | 15 | 0  | .00  |
| 3        | 15 | 0  | .00  | 3        | 20 | 3  | 1.15 | 3        | 15 | 0  | .00  |
| 4        | 15 | 0  | .00  | 4        | 20 | 4  | 1.21 | 4        | 15 | 0  | .00  |
| 5        | 15 | 0  | .00  | 5        | 20 | 4  | 1.28 | 5        | 15 | 0  | .00  |
| 6        | 15 | 0  | .00  | 6        | 20 | 4  | 1.37 | 6        | 15 | 0  | .00  |
| 7        | 15 | 0  | .00  | 7        | 20 | 4  | 1.45 | 7        | 15 | 0  | .00  |
| 8        | 15 | 0  | .00  | 8        | 20 | 5  | 1.53 | 8        | 15 | 0  | .00  |
| 9        | 15 | 0  | .00  | 9        | 20 | 10 | 3.45 | 9        | 15 | 0  | .00  |
| 9        | 15 | 7  | 2.30 | 9        | 20 | 4  | 1.27 | 9        | 15 | 7  | 2.39 |
| 8        | 15 | 4  | 1.20 | 8        | 20 | 2  | .33  | 8        | 15 | 4  | 1.25 |
| 7        | 20 | 4  | 1.22 | 7        | 20 | 2  | .36  | 7        | 15 | 4  | 1.36 |
| 6        | 20 | 4  | 1.34 | 6        | 20 | 2  | .41  | 6        | 20 | 4  | 1.40 |
| 5        | 20 | 4  | 1.46 | 5        | 20 | 2  | .47  | 5        | 20 | 4  | 1.52 |
| 4        | 20 | 5  | 1.59 | 4        | 20 | 2  | .50  | 4        | 20 | 5  | 1.65 |
| 3        | 20 | 5  | 1.75 | 3        | 20 | 2  | .56  | 3        | 20 | 5  | 1.81 |
| 2        | 20 | 6  | 1.92 | 2        | 20 | 2  | .63  | 2        | 20 | 6  | 1.99 |
| 1        | 20 | 11 | 3.59 | 1        | 20 | 5  | 1.55 | 1        | 20 | 12 | 4.11 |

| СТОЯК-10 |    |         |      | СТОЯК-11 |    |    |      | СТОЯК-12 |    |    |      |
|----------|----|---------|------|----------|----|----|------|----------|----|----|------|
| IN       | Д  | Ч       | С    | IN       | Д  | Ч  | С    | IN       | Д  | Ч  | С    |
| ЭТ       | УЗ | СК      | ПРИБ | ЭТ       | УЗ | СК | ПРИБ | ЭТ       | УЗ | СК | ПРИБ |
| Г        | 20 | -       | -    | Г        | 15 | -  | -    | Г        | 15 | -  | -    |
| 0        | 20 | -       | -    | 0        | 20 | -  | -    | 0        | 20 | -  | -    |
| 1        | 20 | КВ12    | 6580 | 1        | 15 | 0  | .00  | 1        | 15 | 5  | 1.84 |
| 2        | 20 | 4       | 1.32 | 2        | 15 | 0  | .00  | 2        | 15 | 3  | 1.14 |
| 3        | 20 | 4       | 1.37 | 3        | 15 | 0  | .00  | 3        | 15 | 4  | 1.20 |
| 4        | 20 | 4       | 1.43 | 4        | 15 | 0  | .00  | 4        | 15 | 4  | 1.26 |
| 5        | 20 | 4       | 1.50 | 5        | 15 | 0  | .00  | 5        | 20 | 4  | 1.27 |
| 6        | 20 | 5       | 1.56 | 6        | 15 | 0  | .00  | 6        | 20 | 4  | 1.36 |
| 7        | 20 | 5       | 1.64 | 7        | 15 | 0  | .00  | 7        | 20 | 4  | 1.44 |
| 8        | 20 | 5       | 1.72 | 8        | 15 | 0  | .00  | 8        | 20 | 5  | 1.53 |
| 9        | 20 | 12      | 4.04 | 9        | 15 | 0  | .00  | 9        | 20 | 10 | 3.43 |
| 9        | 20 | 0       | .00  | 9        | 15 | 7  | 2.38 | 9        | 20 | 4  | 1.27 |
| 8        | 20 | 0       | .00  | 8        | 15 | 4  | 1.25 | 8        | 20 | 2  | .33  |
| 7        | 20 | 0       | .00  | 7        | 15 | 4  | 1.36 | 7        | 20 | 2  | .36  |
| 6        | 20 | 0       | .00  | 6        | 15 | 4  | 1.47 | 6        | 20 | 2  | .41  |
| 5        | 20 | 0       | .00  | 5        | 20 | 4  | 1.51 | 5        | 20 | 2  | .47  |
| 4        | 20 | 0       | .00  | 4        | 20 | 5  | 1.65 | 4        | 20 | 2  | .50  |
| 3        | 20 | 0       | .00  | 3        | 20 | 5  | 1.82 | 3        | 20 | 2  | .56  |
| 2        | 20 | 0       | .00  | 2        | 20 | 6  | 1.99 | 2        | 20 | 2  | .63  |
| 1        | 20 | РЕГИСТР | 800  | 1        | 20 | 11 | 3.70 | 1        | 20 | 5  | 1.55 |

| СТОЯК-13 |    |    |      | СТОЯК-14 |    |    |      | СТОЯК-15 |    |         |      |
|----------|----|----|------|----------|----|----|------|----------|----|---------|------|
| IN       | Д  | Ч  | С    | IN       | Д  | Ч  | С    | IN       | Д  | Ч       | С    |
| ЭТ       | УЗ | СК | ПРИБ | ЭТ       | УЗ | СК | ПРИБ | ЭТ       | УЗ | СК      | ПРИБ |
| Г        | 15 | -  | -    | Г        | 15 | -  | -    | Г        | 15 | -       | -    |
| 0        | 20 | -  | -    | 0        | 20 | -  | -    | 0        | 20 | -       | -    |
| 1        | 15 | 5  | 1,83 | 1        | 15 | 0  | .00  | 1        | 20 | КВ12    | 6580 |
| 2        | 15 | 3  | 1,14 | 2        | 15 | 0  | .00  | 2        | 20 | 4       | 1,33 |
| 3        | 15 | 4  | 1,19 | 3        | 15 | 0  | .00  | 3        | 20 | 4       | 1,39 |
| 4        | 15 | 4  | 1,25 | 4        | 15 | 0  | .00  | 4        | 20 | 4       | 1,46 |
| 5        | 20 | 4  | 1,27 | 5        | 15 | 0  | .00  | 5        | 20 | 5       | 1,53 |
| 6        | 20 | 4  | 1,35 | 6        | 15 | 0  | .00  | 6        | 20 | 5       | 1,61 |
| 7        | 20 | 4  | 1,43 | 7        | 15 | 0  | .00  | 7        | 20 | 5       | 1,71 |
| 8        | 20 | 4  | 1,51 | 8        | 15 | 0  | .00  | 8        | 20 | 5       | 1,79 |
| 9        | 20 | 10 | 3,36 | 9        | 15 | 0  | .00  | 9        | 20 | 13      | 4,29 |
| 9        | 20 | 4  | 1,24 | 9        | 15 | 7  | 2,32 | 9        | 20 | 0       | .00  |
| 8        | 20 | 2  | .32  | 8        | 15 | 4  | 1,21 | 8        | 20 | 0       | .00  |
| 7        | 20 | 2  | .35  | 7        | 15 | 4  | 1,31 | 7        | 20 | 0       | .00  |
| 6        | 20 | 2  | .40  | 6        | 15 | 4  | 1,42 | 6        | 20 | 0       | .00  |
| 5        | 20 | 2  | .46  | 5        | 20 | 4  | 1,46 | 5        | 20 | 0       | .00  |
| 4        | 20 | 2  | .49  | 4        | 20 | 5  | 1,58 | 4        | 20 | 0       | .00  |
| 3        | 20 | 2  | .55  | 3        | 20 | 5  | 1,74 | 3        | 20 | 0       | .00  |
| 2        | 20 | 2  | .61  | 2        | 20 | 6  | 1,92 | 2        | 20 | 0       | .00  |
| 1        | 20 | 4  | 1,51 | 1        | 20 | 12 | 3,98 | 1        | 20 | РЕГИСТР | 800  |

| СТОЯК-16 |    |    |      | СТОЯК-17 |    |    |      | СТОЯК-18 |    |    |      |
|----------|----|----|------|----------|----|----|------|----------|----|----|------|
| IN       | Д  | Ч  | С    | IN       | Д  | Ч  | С    | IN       | Д  | Ч  | С    |
| ЭТ       | УЗ | СК | ПРИБ | ЭТ       | УЗ | СК | ПРИБ | ЭТ       | УЗ | СК | ПРИБ |
| Г        | 25 | -  | -    | Г        | 15 | -  | -    | Г        | 15 | -  | -    |
| 0        | 20 | -  | -    | 0        | 20 | -  | -    | 0        | 20 | -  | -    |
| 1        | 20 | 4  | 1,23 | 1        | 15 | 0  | .00  | 1        | 15 | 0  | .00  |
| 2        | 20 | 2  | .82  | 2        | 15 | 0  | .00  | 2        | 15 | 0  | .00  |
| 3        | 20 | 3  | .86  | 3        | 15 | 0  | .00  | 3        | 15 | 0  | .00  |
| 4        | 20 | 3  | .90  | 4        | 15 | 0  | .00  | 4        | 15 | 0  | .00  |
| 5        | 20 | 3  | .95  | 5        | 15 | 0  | .00  | 5        | 15 | 0  | .00  |
| 6        | 20 | 3  | .99  | 6        | 15 | 0  | .00  | 6        | 15 | 0  | .00  |
| 7        | 20 | 3  | 1,04 | 7        | 15 | 0  | .00  | 7        | 15 | 0  | .00  |
| 8        | 20 | 3  | 1,09 | 8        | 15 | 0  | .00  | 8        | 15 | 0  | .00  |
| 9        | 20 | 6  | 2,08 | 9        | 15 | 0  | .00  | 9        | 15 | 0  | .00  |
| 9        | 20 | 5  | 1,80 | 9        | 15 | 7  | 2,30 | 9        | 15 | 7  | 2,30 |
| 8        | 20 | 4  | 1,34 | 8        | 20 | 4  | 1,22 | 8        | 20 | 4  | 1,21 |
| 7        | 20 | 4  | 1,43 | 7        | 20 | 4  | 1,34 | 7        | 20 | 4  | 1,33 |
| 6        | 20 | 4  | 1,52 | 6        | 20 | 4  | 1,47 | 6        | 20 | 4  | 1,46 |
| 5        | 20 | 5  | 1,63 | 5        | 20 | 5  | 1,61 | 5        | 20 | 5  | 1,60 |
| 4        | 20 | 5  | 1,76 | 4        | 20 | 5  | 1,79 | 4        | 20 | 5  | 1,78 |
| 3        | 20 | 6  | 1,90 | 3        | 20 | 6  | 1,97 | 3        | 20 | 6  | 1,96 |
| 2        | 20 | 6  | 2,06 | 2        | 20 | 7  | 2,20 | 2        | 20 | 6  | 2,18 |
| 1        | 20 | 9  | 2,99 | 1        | 20 | 12 | 4,20 | 1        | 20 | 12 | 4,09 |

| СТОЯК-19 |    |    |      |      | СТОЯК-20 |    |    |    |      | СТОЯК-21 |   |    |    |    |      |      |   |
|----------|----|----|------|------|----------|----|----|----|------|----------|---|----|----|----|------|------|---|
| Н        | Д  | Ч  | С    | Р    | Q        | Н  | Д  | Ч  | С    | Р        | Q | Н  | Д  | Ч  | С    | Р    | Q |
| ЭТ       | УЗ | СК | ПРИБ | ПРИБ |          | ЭТ | УЗ | СК | ПРИБ | ПРИБ     |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   |
| Г        | 15 | -  | -    | -    |          | Г  | 15 | -  | -    | -        |   | Г  | 15 | -  | -    | -    |   |
| О        | 20 | -  | -    | -    |          | О  | 20 | -  | -    | -        |   | О  | 20 | -  | -    | -    |   |
| 1        | 15 | 0  | .00  |      | 0        | 1  | 15 | 4  | 1.52 | 930      |   | 1  | 15 | 4  | 1.52 | 930  |   |
| 2        | 20 | 0  | .00  |      | 0        | 2  | 15 | 3  | 1.09 | 700      |   | 2  | 15 | 3  | 1.09 | 700  |   |
| 3        | 20 | 0  | .00  |      | 0        | 3  | 15 | 3  | 1.15 | 700      |   | 3  | 15 | 3  | 1.15 | 700  |   |
| 4        | 20 | 5  | 1.62 | 1100 |          | 4  | 15 | 4  | 1.21 | 700      |   | 4  | 15 | 4  | 1.21 | 700  |   |
| 5        | 20 | 5  | 1.73 | 1100 |          | 5  | 15 | 4  | 1.29 | 700      |   | 5  | 15 | 4  | 1.29 | 700  |   |
| 6        | 20 | 5  | 1.85 | 1100 |          | 6  | 15 | 4  | 1.37 | 700      |   | 6  | 15 | 4  | 1.37 | 700  |   |
| 7        | 20 | 6  | 1.96 | 1100 |          | 7  | 20 | 4  | 1.39 | 700      |   | 7  | 15 | 4  | 1.45 | 700  |   |
| 8        | 20 | 6  | 2.11 | 1100 |          | 8  | 20 | 4  | 1.48 | 700      |   | 8  | 20 | 4  | 1.47 | 700  |   |
| 9        | 20 | 11 | 3.86 | 1590 |          | 9  | 20 | 8  | 2.68 | 1030     |   | 9  | 20 | 8  | 2.66 | 1030 |   |
| 9        | 20 | 4  | 1.25 | 780  |          | 9  | 20 | 0  | .00  | 0        |   | 9  | 20 | 0  | .00  | 0    |   |
| 8        | 20 | 2  | .51  | 425  |          | 8  | 20 | 0  | .00  | 0        |   | 8  | 20 | 0  | .00  | 0    |   |
| 7        | 20 | 2  | .56  | 430  |          | 7  | 20 | 0  | .00  | 0        |   | 7  | 20 | 0  | .00  | 0    |   |
| 6        | 20 | 2  | .62  | 440  |          | 6  | 20 | 0  | .00  | 0        |   | 6  | 20 | 0  | .00  | 0    |   |
| 5        | 20 | 2  | .68  | 450  |          | 5  | 20 | 0  | .00  | 0        |   | 5  | 20 | 0  | .00  | 0    |   |
| 4        | 20 | 2  | .75  | 460  |          | 4  | 20 | 0  | .00  | 0        |   | 4  | 20 | 0  | .00  | 0    |   |
| 3        | 20 | 2  | .83  | 475  |          | 3  | 20 | 6  | 2.13 | 1100     |   | 3  | 20 | 7  | 2.22 | 1100 |   |
| 2        | 20 | 3  | .91  | 490  |          | 2  | 20 | 7  | 2.34 | 1100     |   | 2  | 20 | 7  | 2.47 | 1100 |   |
| 1        | 20 | 5  | 1.71 | 735  |          | 1  | 20 | 12 | 4.13 | 1450     |   | 1  | 20 | 12 | 4.12 | 1450 |   |

| СТОЯК-22 |    |    |      |       | СТОЯК-23 |    |    |    |      | СТОЯК-24 |      |    |    |    |      |       |      |
|----------|----|----|------|-------|----------|----|----|----|------|----------|------|----|----|----|------|-------|------|
| Н        | Д  | Ч  | С    | Р     | Q        | Н  | Д  | Ч  | С    | Р        | Q    | Н  | Д  | Ч  | С    | Р     | Q    |
| ЭТ       | УЗ | СК | ПРИБ | ПРИБ. |          | ЭТ | УЗ | СК | ПРИБ | ПРИБ.    |      | ЭТ | УЗ | СК | ПРИБ | ПРИБ. |      |
| Г        | 15 | -  | -    | -     |          | Г  | 15 | -  | -    | -        |      | Г  | 15 | -  | -    | -     |      |
| О        | 20 | -  | -    | -     |          | О  | 20 | -  | -    | -        |      | О  | 20 | -  | -    | -     |      |
| 1        | 15 | 0  | .00  |       | 0        | 1  | 15 | 0  | .00  |          | 0    | 1  | 15 | 5  | 1.57 |       | 930  |
| 2        | 15 | 0  | .00  |       | 0        | 2  | 15 | 0  | .00  |          | 0    | 2  | 20 | 3  | 1.08 |       | 700  |
| 3        | 15 | 0  | .00  |       | 0        | 3  | 15 | 0  | .00  |          | 0    | 3  | 20 | 3  | 1.14 |       | 700  |
| 4        | 20 | 5  | 1.58 |       | 1100     | 4  | 15 | 0  | .00  |          | 0    | 4  | 20 | 4  | 1.21 |       | 700  |
| 5        | 20 | 5  | 1.68 |       | 1100     | 5  | 15 | 0  | .00  |          | 0    | 5  | 20 | 4  | 1.30 |       | 700  |
| 6        | 20 | 5  | 1.79 |       | 1100     | 6  | 15 | 0  | .00  |          | 0    | 6  | 20 | 4  | 1.39 |       | 700  |
| 7        | 20 | 6  | 1.90 |       | 1100     | 7  | 15 | 0  | .00  |          | 0    | 7  | 20 | 4  | 1.49 |       | 700  |
| 8        | 20 | 6  | 2.04 |       | 1100     | 8  | 15 | 0  | .00  |          | 0    | 8  | 20 | 5  | 1.58 |       | 700  |
| 9        | 20 | 11 | 3.74 |       | 1590     | 9  | 15 | 0  | .00  |          | 0    | 9  | 20 | 9  | 2.91 |       | 1030 |
| 9        | 20 | 4  | 1.22 |       | 780      | 9  | 15 | 7  | 2.23 |          | 1520 | 9  | 20 | 0  | .00  |       | 0    |
| 8        | 20 | 2  | .49  |       | 425      | 8  | 15 | 4  | 1.26 |          | 960  | 8  | 20 | 0  | .00  |       | 0    |
| 7        | 20 | 2  | .54  |       | 430      | 7  | 15 | 4  | 1.37 |          | 960  | 7  | 20 | 0  | .00  |       | 0    |
| 6        | 20 | 2  | .59  |       | 440      | 6  | 15 | 4  | 1.49 |          | 960  | 6  | 20 | 0  | .00  |       | 0    |
| 5        | 20 | 2  | .65  |       | 450      | 5  | 15 | 5  | 1.62 |          | 960  | 5  | 20 | 0  | .00  |       | 0    |
| 4        | 20 | 2  | .72  |       | 460      | 4  | 15 | 5  | 1.78 |          | 960  | 4  | 20 | 0  | .00  |       | 0    |
| 3        | 20 | 2  | .79  |       | 475      | 3  | 20 | 6  | 1.86 |          | 960  | 3  | 20 | 7  | 2.29 |       | 1100 |
| 2        | 20 | 3  | .87  |       | 490      | 2  | 20 | 6  | 2.08 |          | 960  | 2  | 20 | 8  | 2.56 |       | 1100 |
| 1        | 20 | 5  | 1.65 |       | 735      | 1  | 20 | 12 | 3.91 |          | 1360 | 1  | 20 | 13 | 4.41 |       | 1450 |

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СТОЯК-25

СТОЯК-26

СТОЯК-27

| IN | Д  | Ч  | С    | Р    | В | IN | Д  | Ч  | С    | Р    | В | IN | Д  | Ч  | С    | Р    | В |
|----|----|----|------|------|---|----|----|----|------|------|---|----|----|----|------|------|---|
| ЭТ | УЗ | СК | ПРИБ | ПРИБ | ! | ЭТ | УЗ | СК | ПРИБ | ПРИБ | ! | ЭТ | УЗ | СК | ПРИБ | ПРИБ | ! |
| Г  | 15 | -  | -    | -    | ! | Г  | 15 | -  | -    | -    | ! | Г  | 15 | -  | -    | -    | ! |
| О  | 20 | -  | -    | -    | ! | О  | 20 | -  | -    | -    | ! | О  | 20 | -  | -    | -    | ! |
| 1  | 20 | 0  | .00  | 0    | ! | 1  | 15 | 0  | .00  | 0    | ! | 1  | 15 | 0  | .00  | 0    | ! |
| 2  | 20 | 0  | .00  | 0    | ! | 2  | 15 | 0  | .00  | 0    | ! | 2  | 15 | 0  | .00  | 0    | ! |
| 3  | 20 | 0  | .00  | 0    | ! | 3  | 15 | 0  | .00  | 0    | ! | 3  | 15 | 0  | .00  | 0    | ! |
| 4  | 20 | 5  | 1.67 | 1100 | ! | 4  | 15 | 0  | .00  | 0    | ! | 4  | 15 | 0  | .00  | 0    | ! |
| 5  | 20 | 5  | 1.78 | 1100 | ! | 5  | 15 | 0  | .00  | 0    | ! | 5  | 15 | 0  | .00  | 0    | ! |
| 6  | 20 | 6  | 1.89 | 1100 | ! | 6  | 15 | 0  | .00  | 0    | ! | 6  | 15 | 0  | .00  | 0    | ! |
| 7  | 20 | 6  | 2.03 | 1100 | ! | 7  | 15 | 0  | .00  | 0    | ! | 7  | 15 | 0  | .00  | 0    | ! |
| 8  | 20 | 6  | 2.18 | 1100 | ! | 8  | 15 | 0  | .00  | 0    | ! | 8  | 15 | 0  | .00  | 0    | ! |
| 9  | 20 | 12 | 3.98 | 1590 | ! | 9  | 15 | 0  | .00  | 0    | ! | 9  | 15 | 0  | .00  | 0    | ! |
| 9  | 20 | 4  | 1.30 | 780  | ! | 9  | 15 | 7  | 2.34 | 1520 | ! | 9  | 15 | 7  | 2.33 | 1520 | ! |
| 8  | 20 | 2  | .54  | 425  | ! | 8  | 15 | 4  | 1.32 | 960  | ! | 8  | 15 | 4  | 1.32 | 960  | ! |
| 7  | 20 | 2  | .58  | 430  | ! | 7  | 20 | 4  | 1.36 | 960  | ! | 7  | 15 | 4  | 1.44 | 960  | ! |
| 6  | 20 | 2  | .64  | 440  | ! | 6  | 20 | 4  | 1.49 | 960  | ! | 6  | 20 | 4  | 1.48 | 960  | ! |
| 5  | 20 | 2  | .70  | 450  | ! | 5  | 20 | 5  | 1.63 | 960  | ! | 5  | 20 | 5  | 1.62 | 960  | ! |
| 4  | 20 | 2  | .77  | 460  | ! | 4  | 20 | 5  | 1.81 | 960  | ! | 4  | 20 | 5  | 1.80 | 960  | ! |
| 3  | 20 | 3  | .85  | 475  | ! | 3  | 20 | 6  | 2.00 | 960  | ! | 3  | 20 | 6  | 1.99 | 960  | ! |
| 2  | 20 | 3  | .95  | 490  | ! | 2  | 20 | 7  | 2.24 | 960  | ! | 2  | 20 | 7  | 2.23 | 960  | ! |
| 1  | 20 | 5  | 1.78 | 735  | ! | 1  | 20 | 13 | 4.25 | 1360 | ! | 1  | 20 | 13 | 4.28 | 1360 | ! |

СТОЯК-28

СТОЯК-29

СТОЯК-30

| IN | Д  | Ч  | С    | Р    | В | IN | Д  | Ч  | С    | Р    | В | IN | Д  | Ч  | С    | Р    | В |
|----|----|----|------|------|---|----|----|----|------|------|---|----|----|----|------|------|---|
| ЭТ | УЗ | СК | ПРИБ | ПРИБ | ! | ЭТ | УЗ | СК | ПРИБ | ПРИБ | ! | ЭТ | УЗ | СК | ПРИБ | ПРИБ | ! |
| Г  | 15 | -  | -    | -    | ! | Г  | 15 | -  | -    | -    | ! | Г  | 15 | -  | -    | -    | ! |
| О  | 20 | -  | -    | -    | ! | О  | 20 | -  | -    | -    | ! | О  | 20 | -  | -    | -    | ! |
| 1  | 15 | 0  | .00  | 0    | ! | 1  | 15 | 5  | 1.54 | 930  | ! | 1  | 15 | 5  | 1.53 | 930  | ! |
| 2  | 15 | 0  | .00  | 0    | ! | 2  | 15 | 3  | 1.12 | 700  | ! | 2  | 15 | 3  | 1.11 | 700  | ! |
| 3  | 20 | 0  | .00  | 0    | ! | 3  | 15 | 3  | 1.18 | 700  | ! | 3  | 15 | 3  | 1.18 | 700  | ! |
| 4  | 20 | 5  | 1.63 | 1100 | ! | 4  | 15 | 4  | 1.24 | 700  | ! | 4  | 15 | 4  | 1.24 | 700  | ! |
| 5  | 20 | 5  | 1.75 | 1100 | ! | 5  | 15 | 4  | 1.33 | 700  | ! | 5  | 15 | 4  | 1.33 | 700  | ! |
| 6  | 20 | 6  | 1.86 | 1100 | ! | 6  | 15 | 4  | 1.41 | 700  | ! | 6  | 15 | 4  | 1.41 | 700  | ! |
| 7  | 20 | 6  | 2.00 | 1100 | ! | 7  | 15 | 4  | 1.50 | 700  | ! | 7  | 15 | 4  | 1.50 | 700  | ! |
| 8  | 20 | 6  | 2.16 | 1100 | ! | 8  | 20 | 5  | 1.53 | 700  | ! | 8  | 15 | 5  | 1.60 | 700  | ! |
| 9  | 20 | 12 | 3.95 | 1590 | ! | 9  | 20 | 8  | 2.80 | 1030 | ! | 9  | 20 | 8  | 2.81 | 1030 | ! |
| 9  | 20 | 4  | 1.30 | 780  | ! | 9  | 20 | 0  | .00  | 0    | ! | 9  | 20 | 0  | .00  | 0    | ! |
| 8  | 20 | 2  | .54  | 425  | ! | 8  | 20 | 0  | .00  | 0    | ! | 8  | 20 | 0  | .00  | 0    | ! |
| 7  | 20 | 2  | .58  | 430  | ! | 7  | 20 | 0  | .00  | 0    | ! | 7  | 20 | 0  | .00  | 0    | ! |
| 6  | 20 | 2  | .64  | 440  | ! | 6  | 20 | 0  | .00  | 0    | ! | 6  | 20 | 0  | .00  | 0    | ! |
| 5  | 20 | 2  | .71  | 450  | ! | 5  | 20 | 0  | .00  | 0    | ! | 5  | 20 | 0  | .00  | 0    | ! |
| 4  | 20 | 2  | .77  | 460  | ! | 4  | 20 | 0  | .00  | 0    | ! | 4  | 20 | 0  | .00  | 0    | ! |
| 3  | 20 | 3  | .86  | 475  | ! | 3  | 20 | 6  | 2.17 | 1100 | ! | 3  | 20 | 7  | 2.32 | 1100 | ! |
| 2  | 20 | 3  | .96  | 490  | ! | 2  | 20 | 7  | 2.52 | 1100 | ! | 2  | 20 | 8  | 2.59 | 1100 | ! |
| 1  | 20 | 5  | 1.80 | 735  | ! | 1  | 20 | 13 | 4.23 | 1450 | ! | 1  | 20 | 13 | 4.40 | 1450 | ! |

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| СТОЯК-31 |    |    |      |       | СТОЯК-32 |    |    |      |       |
|----------|----|----|------|-------|----------|----|----|------|-------|
| IN       | Д  | Ч  | С    | Q     | IN       | Д  | Ч  | С    | Q     |
| ЭТ       | УЗ | СК | ПРИБ | ПРИБ. | ЭТ       | УЗ | СК | ПРИБ | ПРИБ. |
| Г        | 15 | -  | -    | -     | Г        | 20 | -  | -    | -     |
| О        | 20 | -  | -    | -     | О        | 20 | -  | -    | -     |
| 1        | 15 | 0  | .00  | 0     | 1        | 15 | 0  | .00  | 0     |
| 2        | 15 | 0  | .00  | 0     | 2        | 15 | 0  | .00  | 0     |
| 3        | 15 | 0  | .00  | 0     | 3        | 15 | 0  | .00  | 0     |
| 4        | 20 | 5  | 1.59 | 1100  | 4        | 15 | 0  | .00  | 0     |
| 5        | 20 | 5  | 1.70 | 1100  | 5        | 15 | 0  | .00  | 0     |
| 6        | 20 | 5  | 1.81 | 1100  | 6        | 15 | 0  | .00  | 0     |
| 7        | 20 | 6  | 1.93 | 1100  | 7        | 15 | 0  | .00  | 0     |
| 8        | 20 | 6  | 2.07 | 1100  | 8        | 15 | 0  | .00  | 0     |
| 9        | 20 | 11 | 3.81 | 1590  | 9        | 15 | 0  | .00  | 0     |
| 9        | 20 | 4  | 1.24 | 780   | 9        | 15 | 7  | 2.25 | 1520  |
| 8        | 20 | 2  | .50  | 425   | 8        | 15 | 4  | 1.26 | 960   |
| 7        | 20 | 2  | .55  | 430   | 7        | 15 | 4  | 1.38 | 960   |
| 6        | 20 | 2  | .60  | 440   | 6        | 15 | 4  | 1.51 | 960   |
| 5        | 20 | 2  | .66  | 450   | 5        | 15 | 5  | 1.63 | 960   |
| 4        | 20 | 2  | .73  | 460   | 4        | 15 | 5  | 1.80 | 960   |
| 3        | 20 | 2  | .81  | 475   | 3        | 15 | 6  | 1.98 | 960   |
| 2        | 20 | 3  | .90  | 490   | 2        | 15 | 6  | 2.19 | 960   |
| 1        | 20 | 5  | 1.69 | 735   | 1        | 15 | 12 | 4.06 | 1360  |

### КОМПЛЕКТОВОЧНАЯ ТАБЛИЦА

[illegible]

## СПЕЦИФИКАЦИЯ

ОТОПЛЕНИЕ (НИЖЕ ОТМЕТКИ 0,00)

| № ПОЗ | ОБОЗНАЧЕНИЕ   | НАИМЕНОВАНИЕ              | КОЛ-ВО | МАССА, КГ | ПРИМ. |
|-------|---------------|---------------------------|--------|-----------|-------|
|       |               | ТРУБОПРОВОД ИЗ ЛЕГКИХ ВО- |        |           |       |
|       |               | ДОГАЗОПРОВОДНЫХ ТРУБ ПО   |        |           |       |
|       |               | ГОСТ 3262-78:             |        |           |       |
| 1     |               | Д15, М                    | 60     |           | 60    |
| 2     |               | Д20, М                    | 71     |           | 3     |
| 3     |               | Д25, М                    | 24     |           | 19    |
| 4     |               | Д32, М                    | 71     |           | 40    |
| 5     |               | Д40, М                    | 60     |           | 28    |
| 6     |               | Д50, М                    | 123    |           | 61    |
| 7     | ГОСТ 10704-76 | ТРУБА 76X2,8, М           | 25     |           | 12    |
| 8     | ГОСТ 10704-76 | ТРУБА 89X2,8, М           | 31     |           | 15    |

|    |               |                   |    |  |   |
|----|---------------|-------------------|----|--|---|
|    | ГОСТ 18161-72 | ВЕНТИЛЬ ЗАПОРНЫЙ  |    |  |   |
|    |               | МУФТОВЫЙ 15КН18БР |    |  |   |
| 9  |               | Д15               | 27 |  | 0 |
| 10 |               | Д20               | 2  |  | 0 |
| 11 |               | Д25               | 3  |  | 0 |

|    |              |                         |    |  |   |
|----|--------------|-------------------------|----|--|---|
|    | ГОСТ 2706-77 | КРАН КОНУСНЫЙ ПРОХОДНОЙ |    |  |   |
|    |              | САЛЬНИКОВЫЙ МУФТОВЫЙ    |    |  |   |
|    |              | 11Б6БК:                 |    |  |   |
| 12 |              | Д20                     | 31 |  | 0 |
| 13 |              | Д25                     | 1  |  | 0 |

|    |               |                      |    |  |   |
|----|---------------|----------------------|----|--|---|
|    | ГОСТ 22595-77 | КРАН ПРОБНО-СПУСКНОЙ |    |  |   |
|    |               | САЛЬНИКОВЫЙ ЛАТУННЫЙ |    |  |   |
|    |               | 10Б19БК ИСП.3        |    |  |   |
| 14 |               | Д15                  | 68 |  | 0 |

|    |              |                         |   |  |   |
|----|--------------|-------------------------|---|--|---|
|    | ГОСТ 8437-75 | ЗАДВИЖКА ПАРАЛЛЕЛЬНАЯ С |   |  |   |
|    |              | ВЫДВИЖНЫМ ШПИДЕЛЕМ      |   |  |   |
|    |              | ФЛАНЦЕВАЯ 30Ч6БР ИСП.3  |   |  |   |
| 15 |              | Д80                     | 4 |  | 0 |

|    |           |                               |   |  |   |
|----|-----------|-------------------------------|---|--|---|
|    | 903-04-13 | УЗЕЛ УПРАВЛЕНИЯ               |   |  |   |
| 16 |           | КОМПЛЕКТОВОЧНЫЙ               | 1 |  | 0 |
|    |           | ОТОПЛЕНИЕ (ВЫШЕ ОТМЕТКИ 0,00) |   |  |   |

|  |  |                           |  |  |  |
|--|--|---------------------------|--|--|--|
|  |  | ТРУБОПРОВОД ИЗ ЛЕГКИХ ВО- |  |  |  |
|  |  | ДОГАЗОПРОВОДНЫХ ТРУБ ПО   |  |  |  |

| № ПОЗ | ОБОЗНАЧЕНИЕ | НАИМЕНОВАНИЕ | КОЛ-ВО | МАССА  | ПРИМ |
|-------|-------------|--------------|--------|--------|------|
|       |             |              |        | ЕД. КГ |      |

|    |               |        |      |  |    |
|----|---------------|--------|------|--|----|
|    | ГОСТ 3262-78: |        |      |  |    |
| 17 |               | Д15, М | 730  |  | 11 |
| 18 |               | Д20, М | 1213 |  | 82 |
| 19 |               | Д25, М | 27   |  | 0  |

|    |               |                          |     |  |   |
|----|---------------|--------------------------|-----|--|---|
|    | ГОСТ 10944-75 | КРАН ДВОЙНОЙ РЕГУЛИРОВКИ |     |  |   |
| 20 | КДР           | Д15                      | 79  |  | 0 |
| 21 | КДР           | Д20                      | 281 |  | 0 |

|    |                            |        |    |  |   |
|----|----------------------------|--------|----|--|---|
|    | РЕГИСТР ИЗ ВОДОГАЗОПРОВОД- |        |    |  |   |
|    | НЫХ ТРУБ ПО ГОСТ 3262-75   |        |    |  |   |
| 22 |                            | Д20, М | 13 |  | 0 |

|    |                     |                  |       |  |   |
|----|---------------------|------------------|-------|--|---|
|    | КРАН ВОЗДУХОСПУСКОЙ |                  |       |  |   |
| 23 | Т. МАЕВСКОГО        |                  | 32    |  | 0 |
|    | ГОСТ 8690-75        | РАДИАТОР М140-АО |       |  |   |
| 24 |                     | ЭКМ              | 679,0 |  |   |
| 25 |                     | СЕК              | 1940  |  |   |

|    |               |                   |   |  |  |
|----|---------------|-------------------|---|--|--|
|    | ГОСТ 20849-75 | КОНВЕКТОР ВЫСОКИЙ |   |  |  |
| 26 | С КОЖУХОМ     | КВ20-12-900       | 3 |  |  |

УДЕЛЬНЫЙ РАСХОД МЕТАЛЛА ,8-КГ/КВ,М

ПРИМЕЧАНИЕ: В ГРАФЕ "ПРИМ" УКАЗАНА ДЛИНА ИЗОЛИРОВАННЫХ ТРУБОПРОВОДОВ

СИСТЕМА С ТРЕХХОДОВЫМИ КРАНАМИ

НАРУЖНАЯ ТЕМПЕРАТУРА -35

Н НАС. ФАКТИЧ. = 1523,2

Q СИСТЕМЫ = 358153

ТАБЛИЦА ДИАМЕТРОВ МАГИСТРАЛЬНЫХ УЧАСТКОВ,  
МАГИСТРАЛЕА И ГЛАВНОГО СТОЯКА

| № | № МАГИСТР. УЧАСТКА | ДИАМЕТР УЧАСТКА |
|---|--------------------|-----------------|
| 1 | 01                 | 32              |
| 1 | 02                 | 40              |
| 1 | 03                 | 40              |
| 1 | 04                 | 50              |
| 1 | 05                 | 50              |
| 1 | М1                 | 50              |
| 2 | 01                 | 32              |
| 2 | 02                 | 40              |
| 2 | 03                 | 50              |
| 2 | 04                 | 50              |
| 2 | 05                 | 50              |
| 2 | 06                 | 70              |
| 2 | М1                 | 70              |
| 3 | 01                 | 32              |
| 3 | 02                 | 32              |
| 3 | 03                 | 32              |
| 3 | 04                 | 40              |
| 3 | 05                 | 50              |
| 3 | 06                 | 50              |
| 3 | М2                 | 50              |
| 4 | 01                 | 32              |
| 4 | 02                 | 32              |
| 4 | 03                 | 40              |
| 4 | 04                 | 50              |
| 4 | 05                 | 50              |
| 4 | 06                 | 50              |
| 4 | 07                 | 50              |
| 4 | М2                 | 50              |
| - | МГ-1               | 70              |
| - | МО-1               | 70              |
| - | МГ-2               | 80              |
| - | МО-2               | 80              |
| - | ГЛ.С               | 80              |

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## ТАБЛИЦЫ РАСЧЕТА НАГРЕВАТЕЛЬНЫХ ПРИБОРОВ

| СТОЯК- 1 |    |    |      |       | СТОЯК- 2 |    |    |      |       | СТОЯК- 3 |    |         |      |       |
|----------|----|----|------|-------|----------|----|----|------|-------|----------|----|---------|------|-------|
| IN       | Д  | ЧС | Р    | Q     | IN       | Д  | ЧС | Р    | Q     | IN       | Д  | ЧС      | Р    | Q     |
| ЭТ       | УЗ | СК | ПРИБ | ПРИБ. | ЭТ       | УЗ | СК | ПРИБ | ПРИБ. | ЭТ       | УЗ | СК      | ПРИБ | ПРИБ. |
| Г        | 25 | -  | -    | -     | Г        | 15 | -  | -    | -     | Г        | 25 | -       | -    | -     |
| 0        | 25 | -  | -    | -     | 0        | 20 | -  | -    | -     | 0        | 20 | -       | -    | -     |
| 1        | 20 | 5  | 1,77 | 1085  | 1        | 20 | 6  | 1,98 | 1175  | 1        | 20 | КВ12    |      | 6580  |
| 2        | 20 | 4  | 1,41 | 869   | 2        | 20 | 5  | 1,62 | 940   | 2        | 20 | 4       | 1,32 | 700   |
| 3        | 20 | 4  | 1,46 | 869   | 3        | 20 | 5  | 1,71 | 940   | 3        | 20 | 4       | 1,38 | 700   |
| 4        | 20 | 4  | 1,52 | 869   | 4        | 20 | 5  | 1,82 | 940   | 4        | 20 | 4       | 1,44 | 700   |
| 5        | 20 | 5  | 1,58 | 869   | 5        | 20 | 6  | 1,93 | 940   | 5        | 20 | 4       | 1,50 | 700   |
| 6        | 20 | 5  | 1,65 | 869   | 6        | 20 | 6  | 2,06 | 940   | 6        | 20 | 5       | 1,57 | 700   |
| 7        | 20 | 5  | 1,72 | 869   | 7        | 20 | 6  | 2,19 | 940   | 7        | 20 | 5       | 1,65 | 700   |
| 8        | 20 | 5  | 1,80 | 869   | 8        | 20 | 7  | 2,32 | 940   | 8        | 20 | 5       | 1,74 | 700   |
| 9        | 20 | 8  | 2,59 | 1139  | 9        | 20 | 10 | 3,47 | 1240  | 9        | 20 | 12      | 4,09 | 1395  |
| 9        | 25 | 7  | 2,42 | 1240  | 9        | 20 | 4  | 1,37 | 730   | 9        | 20 | 0       | ,00  | 0     |
| 8        | 25 | 5  | 1,84 | 940   | 8        | 20 | 2  | ,46  | 340   | 8        | 20 | 0       | ,00  | 0     |
| 7        | 25 | 6  | 1,96 | 940   | 7        | 20 | 2  | ,49  | 340   | 7        | 20 | 0       | ,00  | 0     |
| 6        | 25 | 6  | 2,09 | 940   | 6        | 20 | 2  | ,54  | 350   | 6        | 20 | 0       | ,00  | 0     |
| 5        | 25 | 7  | 2,22 | 940   | 5        | 20 | 2  | ,57  | 350   | 5        | 20 | 0       | ,00  | 0     |
| 4        | 25 | 7  | 2,39 | 940   | 4        | 20 | 2  | ,63  | 360   | 4        | 20 | 0       | ,00  | 0     |
| 3        | 25 | 8  | 2,56 | 940   | 3        | 20 | 2  | ,69  | 370   | 3        | 20 | 0       | ,00  | 0     |
| 2        | 25 | 8  | 2,77 | 940   | 2        | 20 | 2  | ,75  | 380   | 2        | 20 | 0       | ,00  | 0     |
| 1        | 25 | 11 | 3,86 | 1175  | 1        | 20 | 5  | 1,59 | 640   | 1        | 20 | РЕГИСТР |      | 800   |

| СТОЯК- 4 |    |    |      |       | СТОЯК- 5 |    |    |      |       | СТОЯК- 6 |    |    |      |       |
|----------|----|----|------|-------|----------|----|----|------|-------|----------|----|----|------|-------|
| IN       | Д  | ЧС | Р    | Q     | IN       | Д  | ЧС | Р    | Q     | IN       | Д  | ЧС | Р    | Q     |
| ЭТ       | УЗ | СК | ПРИБ | ПРИБ. | ЭТ       | УЗ | СК | ПРИБ | ПРИБ. | ЭТ       | УЗ | СК | ПРИБ | ПРИБ. |
| Г        | 15 | -  | -    | -     | Г        | 15 | -  | -    | -     | Г        | 15 | -  | -    | -     |
| 0        | 20 | -  | -    | -     | 0        | 20 | -  | -    | -     | 0        | 20 | -  | -    | -     |
| 1        | 15 | 0  | ,00  | 0     | 1        | 15 | 5  | 1,78 | 1090  | 1        | 15 | 5  | 1,76 | 1090  |
| 2        | 15 | 0  | ,00  | 0     | 2        | 15 | 3  | 1,16 | 730   | 2        | 15 | 3  | 1,16 | 730   |
| 3        | 15 | 0  | ,00  | 0     | 3        | 20 | 3  | 1,15 | 730   | 3        | 20 | 3  | 1,15 | 730   |
| 4        | 15 | 0  | ,00  | 0     | 4        | 20 | 4  | 1,21 | 730   | 4        | 20 | 4  | 1,20 | 730   |
| 5        | 15 | 0  | ,00  | 0     | 5        | 20 | 4  | 1,27 | 730   | 5        | 20 | 4  | 1,26 | 730   |
| 6        | 15 | 0  | ,00  | 0     | 6        | 20 | 4  | 1,34 | 730   | 6        | 20 | 4  | 1,33 | 730   |
| 7        | 15 | 0  | ,00  | 0     | 7        | 20 | 4  | 1,41 | 730   | 7        | 20 | 4  | 1,40 | 730   |
| 8        | 15 | 0  | ,00  | 0     | 8        | 20 | 4  | 1,48 | 730   | 8        | 20 | 4  | 1,47 | 730   |
| 9        | 15 | 0  | ,00  | 0     | 9        | 20 | 9  | 3,02 | 1270  | 9        | 20 | 9  | 3,00 | 1270  |
| 9        | 15 | 7  | 2,25 | 1590  | 9        | 20 | 4  | 1,25 | 750   | 9        | 20 | 4  | 1,24 | 750   |
| 8        | 20 | 4  | 1,19 | 960   | 8        | 20 | 2  | ,36  | 330   | 8        | 20 | 2  | ,36  | 330   |
| 7        | 20 | 4  | 1,29 | 960   | 7        | 20 | 2  | ,39  | 330   | 7        | 20 | 2  | ,38  | 330   |
| 6        | 20 | 4  | 1,40 | 960   | 6        | 20 | 2  | ,44  | 340   | 6        | 20 | 2  | ,43  | 340   |
| 5        | 20 | 4  | 1,51 | 960   | 5        | 20 | 2  | ,49  | 350   | 5        | 20 | 2  | ,49  | 350   |
| 4        | 20 | 5  | 1,62 | 960   | 4        | 20 | 2  | ,52  | 350   | 4        | 20 | 2  | ,51  | 350   |
| 3        | 20 | 5  | 1,77 | 960   | 3        | 20 | 2  | ,57  | 360   | 3        | 20 | 2  | ,57  | 360   |
| 2        | 20 | 6  | 1,93 | 960   | 2        | 20 | 2  | ,63  | 370   | 2        | 20 | 2  | ,62  | 370   |
| 1        | 20 | 11 | 3,76 | 1450  | 1        | 20 | 4  | 1,48 | 650   | 1        | 20 | 4  | 1,46 | 650   |

## СТОЯК- 7

## СТОЯК- 8

## СТОЯК- 9

| IN | Д  | Ч  | С    | Р    | Q | IN | Д  | Ч  | С    | Р    | Q | IN | Д  | Ч  | С    | Р    | Q |
|----|----|----|------|------|---|----|----|----|------|------|---|----|----|----|------|------|---|
| ЭТ | УЗ | СК | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   |
| Г  | 15 | -  | -    | -    |   | Г  | 15 | -  | -    | -    |   | Г  | 15 | -  | -    | -    |   |
| О  | 20 | -  | -    | -    |   | О  | 20 | -  | -    | -    |   | О  | 20 | -  | -    | -    |   |
| 1  | 15 | 0  | .00  | 0    |   | 1  | 20 | 5  | 1.76 | 1090 |   | 1  | 15 | 0  | .00  | 0    |   |
| 2  | 15 | 0  | .00  | 0    |   | 2  | 20 | 3  | 1.14 | 730  |   | 2  | 15 | 0  | .00  | 0    |   |
| 3  | 15 | 0  | .00  | 0    |   | 3  | 20 | 4  | 1.19 | 730  |   | 3  | 15 | 0  | .00  | 0    |   |
| 4  | 15 | 0  | .00  | 0    |   | 4  | 20 | 4  | 1.26 | 730  |   | 4  | 15 | 0  | .00  | 0    |   |
| 5  | 15 | 0  | .00  | 0    |   | 5  | 20 | 4  | 1.33 | 730  |   | 5  | 15 | 0  | .00  | 0    |   |
| 6  | 15 | 0  | .00  | 0    |   | 6  | 20 | 4  | 1.39 | 730  |   | 6  | 15 | 0  | .00  | 0    |   |
| 7  | 15 | 0  | .00  | 0    |   | 7  | 20 | 4  | 1.47 | 730  |   | 7  | 15 | 0  | .00  | 0    |   |
| 8  | 15 | 0  | .00  | 0    |   | 8  | 20 | 5  | 1.55 | 730  |   | 8  | 15 | 0  | .00  | 0    |   |
| 9  | 15 | 0  | .00  | 0    |   | 9  | 20 | 9  | 3.19 | 1270 |   | 9  | 15 | 0  | .00  | 0    |   |
| 9  | 15 | 7  | 2.22 | 1590 |   | 9  | 20 | 4  | 1.32 | 750  |   | 9  | 15 | 7  | 2.29 | 1590 |   |
| 8  | 15 | 4  | 1.24 | 960  |   | 8  | 20 | 2  | .40  | 330  |   | 8  | 15 | 4  | 1.28 | 960  |   |
| 7  | 20 | 4  | 1.27 | 960  |   | 7  | 20 | 2  | .42  | 330  |   | 7  | 20 | 4  | 1.31 | 960  |   |
| 6  | 20 | 4  | 1.38 | 960  |   | 6  | 20 | 2  | .47  | 340  |   | 6  | 20 | 4  | 1.42 | 960  |   |
| 5  | 20 | 4  | 1.50 | 960  |   | 5  | 20 | 2  | .53  | 350  |   | 5  | 20 | 5  | 1.53 | 960  |   |
| 4  | 20 | 5  | 1.61 | 960  |   | 4  | 20 | 2  | .56  | 350  |   | 4  | 20 | 5  | 1.68 | 960  |   |
| 3  | 20 | 5  | 1.76 | 960  |   | 3  | 20 | 2  | .62  | 360  |   | 3  | 20 | 5  | 1.84 | 960  |   |
| 2  | 20 | 6  | 1.92 | 960  |   | 2  | 20 | 2  | .68  | 370  |   | 2  | 20 | 6  | 2.00 | 960  |   |
| 1  | 20 | 10 | 3.43 | 1350 |   | 1  | 20 | 5  | 1.57 | 650  |   | 1  | 20 | 12 | 3.91 | 1450 |   |

## СТОЯК-10

## СТОЯК-11

## СТОЯК-12

| IN | Д  | Ч       | С    | Р    | Q | IN | Д  | Ч  | С    | Р    | Q | IN | Д  | Ч  | С    | Р    | Q |
|----|----|---------|------|------|---|----|----|----|------|------|---|----|----|----|------|------|---|
| ЭТ | УЗ | СК      | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   |
| Г  | 20 | -       | -    | -    |   | Г  | 15 | -  | -    | -    |   | Г  | 15 | -  | -    | -    |   |
| О  | 20 | -       | -    | -    |   | О  | 20 | -  | -    | -    |   | О  | 20 | -  | -    | -    |   |
| 1  | 20 | КВ12    |      | 6580 |   | 1  | 15 | 0  | .00  | 0    |   | 1  | 15 | 5  | 1.80 | 1090 |   |
| 2  | 20 | 4       | 1.32 | 700  |   | 2  | 15 | 0  | .00  | 0    |   | 2  | 15 | 3  | 1.18 | 730  |   |
| 3  | 20 | 4       | 1.37 | 700  |   | 3  | 15 | 0  | .00  | 0    |   | 3  | 15 | 4  | 1.22 | 730  |   |
| 4  | 20 | 4       | 1.43 | 700  |   | 4  | 15 | 0  | .00  | 0    |   | 4  | 20 | 4  | 1.24 | 730  |   |
| 5  | 20 | 4       | 1.50 | 700  |   | 5  | 15 | 0  | .00  | 0    |   | 5  | 20 | 4  | 1.30 | 730  |   |
| 6  | 20 | 5       | 1.56 | 700  |   | 6  | 15 | 0  | .00  | 0    |   | 6  | 20 | 4  | 1.37 | 730  |   |
| 7  | 20 | 5       | 1.64 | 700  |   | 7  | 15 | 0  | .00  | 0    |   | 7  | 20 | 4  | 1.45 | 730  |   |
| 8  | 20 | 5       | 1.72 | 700  |   | 8  | 15 | 0  | .00  | 0    |   | 8  | 20 | 4  | 1.52 | 730  |   |
| 9  | 20 | 12      | 4.04 | 1395 |   | 9  | 15 | 0  | .00  | 0    |   | 9  | 20 | 9  | 3.10 | 1270 |   |
| 9  | 20 | 0       | .00  | 0    |   | 9  | 15 | 7  | 2.28 | 1590 |   | 9  | 20 | 4  | 1.28 | 750  |   |
| 8  | 20 | 0       | .00  | 0    |   | 8  | 15 | 4  | 1.28 | 960  |   | 8  | 20 | 2  | .38  | 330  |   |
| 7  | 20 | 0       | .00  | 0    |   | 7  | 15 | 4  | 1.38 | 960  |   | 7  | 20 | 2  | .41  | 330  |   |
| 6  | 20 | 0       | .00  | 0    |   | 6  | 20 | 4  | 1.42 | 960  |   | 6  | 20 | 2  | .46  | 340  |   |
| 5  | 20 | 0       | .00  | 0    |   | 5  | 20 | 5  | 1.54 | 960  |   | 5  | 20 | 2  | .51  | 350  |   |
| 4  | 20 | 0       | .00  | 0    |   | 4  | 20 | 5  | 1.69 | 960  |   | 4  | 20 | 2  | .54  | 350  |   |
| 3  | 20 | 0       | .00  | 0    |   | 3  | 20 | 5  | 1.84 | 960  |   | 3  | 20 | 2  | .60  | 360  |   |
| 2  | 20 | 0       | .00  | 0    |   | 2  | 20 | 6  | 2.00 | 960  |   | 2  | 20 | 2  | .66  | 370  |   |
| 1  | 20 | РЕГИСТР |      | 800  |   | 1  | 20 | 11 | 3.56 | 1350 |   | 1  | 20 | 4  | 1.52 | 650  |   |

## СТОЯК-13

## СТОЯК-14

## СТОЯК-15

| IN | Д  | Ч  | С    | Р    | Q | IN | Д  | Ч  | С    | Р    | Q | IN | Д  | Ч       | С    | Р    | Q |
|----|----|----|------|------|---|----|----|----|------|------|---|----|----|---------|------|------|---|
| ЭТ | УЗ | СК | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК      | ПРИБ | ПРИБ |   |
| Г  | 15 | -  | -    | -    |   | Г  | 15 | -  | -    | -    |   | Г  | 15 | -       | -    | -    |   |
| 0  | 20 | -  | -    | -    |   | 0  | 20 | -  | -    | -    |   | 0  | 20 | -       | -    | -    |   |
| 1  | 15 | 5  | 1,78 | 1090 |   | 1  | 15 | 0  | .00  | 0    |   | 1  | 20 | КВ12    |      | 6580 |   |
| 2  | 15 | 3  | 1,17 | 730  |   | 2  | 15 | 0  | .00  | 0    |   | 2  | 20 | 4       | 1,32 | 700  |   |
| 3  | 15 | 4  | 1,22 | 730  |   | 3  | 15 | 0  | .00  | 0    |   | 3  | 20 | 4       | 1,39 | 700  |   |
| 4  | 20 | 4  | 1,22 | 730  |   | 4  | 15 | 0  | .00  | 0    |   | 4  | 20 | 4       | 1,46 | 700  |   |
| 5  | 20 | 4  | 1,29 | 730  |   | 5  | 15 | 0  | .00  | 0    |   | 5  | 20 | 4       | 1,52 | 700  |   |
| 6  | 20 | 4  | 1,36 | 730  |   | 6  | 15 | 0  | .00  | 0    |   | 6  | 20 | 5       | 1,60 | 700  |   |
| 7  | 20 | 4  | 1,43 | 730  |   | 7  | 15 | 0  | .00  | 0    |   | 7  | 20 | 5       | 1,68 | 700  |   |
| 8  | 20 | 4  | 1,51 | 730  |   | 8  | 15 | 0  | .00  | 0    |   | 8  | 20 | 5       | 1,78 | 700  |   |
| 9  | 20 | 9  | 3,08 | 1270 |   | 9  | 15 | 0  | .00  | 0    |   | 9  | 20 | 13      | 4,23 | 1395 |   |
| 9  | 20 | 4  | 1,27 | 750  |   | 9  | 15 | 7  | 2,23 | 1590 |   | 9  | 20 | 0       | .00  | 0    |   |
| 8  | 20 | 2  | .38  | 330  |   | 8  | 15 | 4  | 1,24 | 960  |   | 8  | 20 | 0       | .00  | 0    |   |
| 7  | 20 | 2  | .40  | 330  |   | 7  | 15 | 4  | 1,34 | 960  |   | 7  | 20 | 0       | .00  | 0    |   |
| 6  | 20 | 2  | .45  | 340  |   | 6  | 20 | 4  | 1,38 | 960  |   | 6  | 20 | 0       | .00  | 0    |   |
| 5  | 20 | 2  | .50  | 350  |   | 5  | 20 | 4  | 1,49 | 960  |   | 5  | 20 | 0       | .00  | 0    |   |
| 4  | 20 | 2  | .53  | 350  |   | 4  | 20 | 5  | 1,61 | 960  |   | 4  | 20 | 0       | .00  | 0    |   |
| 3  | 20 | 2  | .59  | 360  |   | 3  | 20 | 5  | 1,75 | 960  |   | 3  | 20 | 0       | .00  | 0    |   |
| 2  | 20 | 2  | .65  | 370  |   | 2  | 20 | 6  | 1,91 | 960  |   | 2  | 20 | 0       | .00  | 0    |   |
| 1  | 20 | 4  | 1,51 | 650  |   | 1  | 20 | 11 | 3,74 | 1450 |   | 1  | 20 | РЕГИСТР |      | 800  |   |

## СТОЯК-16

## СТОЯК-17

## СТОЯК-18

| IN | Д  | Ч  | С    | Р    | Q | IN | Д  | Ч  | С    | Р    | Q | IN | Д  | Ч  | С    | Р    | Q |
|----|----|----|------|------|---|----|----|----|------|------|---|----|----|----|------|------|---|
| ЭТ | УЗ | СК | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   |
| Г  | 25 | -  | -    | -    |   | Г  | 15 | -  | -    | -    |   | Г  | 15 | -  | -    | -    |   |
| 0  | 20 | -  | -    | -    |   | 0  | 20 | -  | -    | -    |   | 0  | 20 | -  | -    | -    |   |
| 1  | 20 | 4  | 1,25 | 840  |   | 1  | 15 | 0  | .00  | 0    |   | 1  | 15 | 0  | .00  | 0    |   |
| 2  | 20 | 3  | .85  | 610  |   | 2  | 15 | 0  | .00  | 0    |   | 2  | 15 | 0  | .00  | 0    |   |
| 3  | 20 | 3  | .89  | 610  |   | 3  | 15 | 0  | .00  | 0    |   | 3  | 15 | 0  | .00  | 0    |   |
| 4  | 20 | 3  | .94  | 610  |   | 4  | 15 | 0  | .00  | 0    |   | 4  | 15 | 0  | .00  | 0    |   |
| 5  | 20 | 3  | .98  | 610  |   | 5  | 15 | 0  | .00  | 0    |   | 5  | 15 | 0  | .00  | 0    |   |
| 6  | 20 | 3  | 1,02 | 610  |   | 6  | 15 | 0  | .00  | 0    |   | 6  | 15 | 0  | .00  | 0    |   |
| 7  | 20 | 3  | 1,07 | 610  |   | 7  | 15 | 0  | .00  | 0    |   | 7  | 15 | 0  | .00  | 0    |   |
| 8  | 20 | 3  | 1,12 | 610  |   | 8  | 15 | 0  | .00  | 0    |   | 8  | 15 | 0  | .00  | 0    |   |
| 9  | 20 | 6  | 2,01 | 940  |   | 9  | 15 | 0  | .00  | 0    |   | 9  | 15 | 0  | .00  | 0    |   |
| 9  | 20 | 5  | 1,81 | 932  |   | 9  | 15 | 7  | 2,22 | 1520 |   | 9  | 15 | 7  | 2,20 | 1520 |   |
| 8  | 20 | 4  | 1,37 | 711  |   | 8  | 20 | 4  | 1,26 | 960  |   | 8  | 20 | 4  | 1,25 | 960  |   |
| 7  | 20 | 4  | 1,46 | 711  |   | 7  | 20 | 6  | 1,38 | 960  |   | 7  | 20 | 4  | 1,37 | 960  |   |
| 6  | 20 | 5  | 1,56 | 711  |   | 6  | 20 | 4  | 1,50 | 960  |   | 6  | 20 | 4  | 1,48 | 960  |   |
| 5  | 20 | 5  | 1,68 | 711  |   | 5  | 20 | 5  | 1,62 | 960  |   | 5  | 20 | 5  | 1,60 | 960  |   |
| 4  | 20 | 5  | 1,80 | 711  |   | 4  | 20 | 5  | 1,78 | 960  |   | 4  | 20 | 5  | 1,76 | 960  |   |
| 3  | 20 | 6  | 1,92 | 711  |   | 3  | 20 | 6  | 1,95 | 960  |   | 3  | 20 | 6  | 1,93 | 960  |   |
| 2  | 20 | 6  | 2,08 | 711  |   | 2  | 20 | 6  | 2,16 | 960  |   | 2  | 20 | 6  | 2,14 | 960  |   |
| 1  | 20 | 9  | 2,93 | 887  |   | 1  | 20 | 12 | 3,89 | 1360 |   | 1  | 20 | 11 | 3,85 | 1360 |   |

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| СТОЯК-19 |    |    |      |      | СТОЯК-20 |    |    |    |      | СТОЯК-21 |   |    |    |    |      |      |      |
|----------|----|----|------|------|----------|----|----|----|------|----------|---|----|----|----|------|------|------|
| IN       | Д  | Ч  | С    | Р    | Q        | IN | Д  | Ч  | С    | Р        | Q | IN | Д  | Ч  | С    | Р    | Q    |
| ЭТ       | УЗ | СК | ПРИБ | ПРИБ |          | ЭТ | УЗ | СК | ПРИБ | ПРИБ     |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |      |
| Г        | 15 | -  | -    | -    |          | Г  | 15 | -  | -    | -        |   | Г  | 15 | -  | -    | -    |      |
| О        | 20 | -  | -    | -    |          | О  | 20 | -  | -    | -        |   | О  | 20 | -  | -    | -    |      |
| 1        | 15 | 0  | .00  |      | 0        | 1  | 15 | 4  | 1.51 | 930      |   | 1  | 15 | 4  | 1.50 |      | 930  |
| 2        | 20 | 0  | .00  |      | 0        | 2  | 15 | 3  | 1.13 | 700      |   | 2  | 15 | 3  | 1.12 |      | 700  |
| 3        | 20 | 0  | .00  |      | 0        | 3  | 15 | 3  | 1.18 | 700      |   | 3  | 15 | 3  | 1.17 |      | 700  |
| 4        | 20 | 5  | 1.62 | 1100 |          | 4  | 15 | 4  | 1.24 | 700      |   | 4  | 15 | 4  | 1.23 |      | 700  |
| 5        | 20 | 5  | 1.71 | 1100 |          | 5  | 15 | 4  | 1.31 | 700      |   | 5  | 15 | 4  | 1.29 |      | 700  |
| 6        | 20 | 5  | 1.81 | 1100 |          | 6  | 20 | 4  | 1.32 | 700      |   | 6  | 20 | 4  | 1.31 |      | 700  |
| 7        | 20 | 6  | 1.91 | 1100 |          | 7  | 20 | 4  | 1.41 | 700      |   | 7  | 20 | 4  | 1.39 |      | 700  |
| 8        | 20 | 6  | 2.04 | 1100 |          | 8  | 20 | 4  | 1.49 | 700      |   | 8  | 20 | 4  | 1.47 |      | 700  |
| 9        | 20 | 10 | 3.54 | 1590 |          | 9  | 20 | 7  | 2.51 | 1030     |   | 9  | 20 | 7  | 2.46 |      | 1030 |
| 9        | 20 | 4  | 1.30 | 780  |          | 9  | 20 | 0  | .00  | 0        |   | 9  | 20 | 0  | .00  |      | 0    |
| 8        | 20 | 2  | .57  | 425  |          | 8  | 20 | 0  | .00  | 0        |   | 8  | 20 | 0  | .00  |      | 0    |
| 7        | 20 | 2  | .62  | 430  |          | 7  | 20 | 0  | .00  | 0        |   | 7  | 20 | 0  | .00  |      | 0    |
| 6        | 20 | 2  | .67  | 440  |          | 6  | 20 | 0  | .00  | 0        |   | 6  | 20 | 0  | .00  |      | 0    |
| 5        | 20 | 2  | .73  | 450  |          | 5  | 20 | 0  | .00  | 0        |   | 5  | 20 | 0  | .00  |      | 0    |
| 4        | 20 | 2  | .79  | 460  |          | 4  | 20 | 0  | .00  | 0        |   | 4  | 20 | 0  | .00  |      | 0    |
| 3        | 20 | 3  | .87  | 475  |          | 3  | 20 | 6  | 2.12 | 1100     |   | 3  | 20 | 6  | 2.17 |      | 1100 |
| 2        | 20 | 3  | .96  | 490  |          | 2  | 20 | 7  | 2.32 | 1100     |   | 2  | 20 | 7  | 2.38 |      | 1100 |
| 1        | 20 | 5  | 1.73 | 735  |          | 1  | 20 | 12 | 3.93 | 1450     |   | 1  | 20 | 11 | 3.85 |      | 1450 |

| СТОЯК-22 |    |    |      |      | СТОЯК-23 |    |    |    |      | СТОЯК-24 |   |    |    |    |      |      |      |
|----------|----|----|------|------|----------|----|----|----|------|----------|---|----|----|----|------|------|------|
| IN       | Д  | Ч  | С    | Р    | Q        | IN | Д  | Ч  | С    | Р        | Q | IN | Д  | Ч  | С    | Р    | Q    |
| ЭТ       | УЗ | СК | ПРИБ | ПРИБ |          | ЭТ | УЗ | СК | ПРИБ | ПРИБ     |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |      |
| Г        | 15 | -  | -    | -    |          | Г  | 15 | -  | -    | -        |   | Г  | 15 | -  | -    | -    |      |
| О        | 20 | -  | -    | -    |          | О  | 20 | -  | -    | -        |   | О  | 20 | -  | -    | -    |      |
| 1        | 15 | 0  | .00  |      | 0        | 1  | 15 | 0  | .00  |          | 0 | 1  | 15 | 5  | 1.54 |      | 930  |
| 2        | 15 | 0  | .00  |      | 0        | 2  | 15 | 0  | .00  |          | 0 | 2  | 20 | 3  | 1.11 |      | 700  |
| 3        | 15 | 0  | .00  |      | 0        | 3  | 15 | 0  | .00  |          | 0 | 3  | 20 | 3  | 1.17 |      | 700  |
| 4        | 20 | 5  | 1.57 | 1100 |          | 4  | 15 | 0  | .00  |          | 0 | 4  | 20 | 4  | 1.23 |      | 700  |
| 5        | 20 | 5  | 1.67 | 1100 |          | 5  | 15 | 0  | .00  |          | 0 | 5  | 20 | 4  | 1.30 |      | 700  |
| 6        | 20 | 5  | 1.77 | 1100 |          | 6  | 15 | 0  | .00  |          | 0 | 6  | 20 | 4  | 1.38 |      | 700  |
| 7        | 20 | 6  | 1.87 | 1100 |          | 7  | 15 | 0  | .00  |          | 0 | 7  | 20 | 4  | 1.46 |      | 700  |
| 8        | 20 | 6  | 2.00 | 1100 |          | 8  | 15 | 0  | .00  |          | 0 | 8  | 20 | 5  | 1.55 |      | 700  |
| 9        | 20 | 10 | 3.45 | 1590 |          | 9  | 15 | 0  | .00  |          | 0 | 9  | 20 | 8  | 2.64 |      | 1030 |
| 9        | 20 | 4  | 1.27 | 780  |          | 9  | 15 | 6  | 2.15 | 1520     |   | 9  | 20 | 0  | .00  |      | 0    |
| 8        | 20 | 2  | .56  | 425  |          | 8  | 15 | 4  | 1.26 | 960      |   | 8  | 20 | 0  | .00  |      | 0    |
| 7        | 20 | 2  | .60  | 430  |          | 7  | 15 | 4  | 1.36 | 960      |   | 7  | 20 | 0  | .00  |      | 0    |
| 6        | 20 | 2  | .65  | 440  |          | 6  | 15 | 4  | 1.47 | 960      |   | 6  | 20 | 0  | .00  |      | 0    |
| 5        | 20 | 2  | .71  | 450  |          | 5  | 20 | 4  | 1.51 | 960      |   | 5  | 20 | 0  | .00  |      | 0    |
| 4        | 20 | 2  | .76  | 460  |          | 4  | 20 | 5  | 1.63 | 960      |   | 4  | 20 | 0  | .00  |      | 0    |
| 3        | 20 | 2  | .84  | 475  |          | 3  | 20 | 5  | 1.79 | 960      |   | 3  | 20 | 6  | 2.19 |      | 1100 |
| 2        | 20 | 3  | .92  | 490  |          | 2  | 20 | 6  | 1.95 | 960      |   | 2  | 20 | 7  | 2.40 |      | 1100 |
| 1        | 20 | 5  | 1.67 | 735  |          | 1  | 20 | 10 | 3.54 | 1360     |   | 1  | 20 | 12 | 4.08 |      | 1450 |

| СТОЯК-25 |    |    |      |      | СТОЯК-26 |    |    |    |      | СТОЯК-27 |   |    |    |    |      |      |   |
|----------|----|----|------|------|----------|----|----|----|------|----------|---|----|----|----|------|------|---|
| IN       | Д  | Ч  | С    | Ф    | Q        | IN | Д  | Ч  | С    | Ф        | Q | IN | Д  | Ч  | С    | Ф    | Q |
| ЭТ       | УЗ | СК | ПРИБ | ПРИБ |          | ЭТ | УЗ | СК | ПРИБ | ПРИБ     |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   |
| Г        | 15 | -  | -    | -    |          | Г  | 15 | -  | -    | -        |   | Г  | 15 | -  | -    | -    |   |
| 0        | 20 | -  | -    | -    |          | 0  | 20 | -  | -    | -        |   | 0  | 20 | -  | -    | -    |   |
| 1        | 15 | 0  | .00  |      | 0        | 1  | 15 | 0  | .00  |          | 0 | 1  | 15 | 0  | .00  |      | 0 |
| 2        | 20 | 0  | .00  |      | 0        | 2  | 15 | 0  | .00  |          | 0 | 2  | 15 | 0  | .00  |      | 0 |
| 3        | 20 | 0  | .00  |      | 0        | 3  | 15 | 0  | .00  |          | 0 | 3  | 15 | 0  | .00  |      | 0 |
| 4        | 20 | 5  | 1.64 | 1100 |          | 4  | 15 | 0  | .00  |          | 0 | 4  | 15 | 0  | .00  |      | 0 |
| 5        | 20 | 5  | 1.74 | 1100 |          | 5  | 15 | 0  | .00  |          | 0 | 5  | 15 | 0  | .00  |      | 0 |
| 6        | 20 | 5  | 1.85 | 1100 |          | 6  | 15 | 0  | .00  |          | 0 | 6  | 15 | 0  | .00  |      | 0 |
| 7        | 20 | 6  | 1.95 | 1100 |          | 7  | 15 | 0  | .00  |          | 0 | 7  | 15 | 0  | .00  |      | 0 |
| 8        | 20 | 6  | 2.09 | 1100 |          | 8  | 15 | 0  | .00  |          | 0 | 8  | 15 | 0  | .00  |      | 0 |
| 9        | 20 | 11 | 3.61 | 1590 |          | 9  | 15 | 0  | .00  |          | 0 | 9  | 15 | 0  | .00  |      | 0 |
| 9        | 20 | 4  | 1.33 | 780  |          | 9  | 15 | 7  | 2.24 | 1520     |   | 9  | 15 | 7  | 2.21 | 1520 |   |
| 8        | 20 | 2  | .59  | 425  |          | 8  | 15 | 4  | 1.35 | 960      |   | 8  | 15 | 4  | 1.33 | 960  |   |
| 7        | 20 | 2  | .64  | 430  |          | 7  | 20 | 4  | 1.38 | 960      |   | 7  | 20 | 4  | 1.37 | 960  |   |
| 6        | 20 | 2  | .70  | 440  |          | 6  | 20 | 4  | 1.51 | 960      |   | 6  | 20 | 4  | 1.49 | 960  |   |
| 5        | 20 | 2  | .75  | 450  |          | 5  | 20 | 5  | 1.64 | 960      |   | 5  | 20 | 5  | 1.60 | 960  |   |
| 4        | 20 | 2  | .82  | 460  |          | 4  | 20 | 5  | 1.80 | 960      |   | 4  | 20 | 5  | 1.76 | 960  |   |
| 3        | 20 | 3  | .89  | 475  |          | 3  | 20 | 6  | 1.97 | 960      |   | 3  | 20 | 6  | 1.93 | 960  |   |
| 2        | 20 | 3  | .99  | 490  |          | 2  | 20 | 6  | 2.18 | 960      |   | 2  | 20 | 6  | 2.15 | 960  |   |
| 1        | 20 | 5  | 1.78 | 735  |          | 1  | 20 | 12 | 3.95 | 1360     |   | 1  | 20 | 11 | 3.85 | 1360 |   |

| СТОЯК-28 |    |    |      |      | СТОЯК-29 |    |    |    |      | СТОЯК-30 |      |    |    |    |      |      |      |
|----------|----|----|------|------|----------|----|----|----|------|----------|------|----|----|----|------|------|------|
| IN       | Д  | Ч  | С    | Ф    | Q        | IN | Д  | Ч  | С    | Ф        | Q    | IN | Д  | Ч  | С    | Ф    | Q    |
| ЭТ       | УЗ | СК | ПРИБ | ПРИБ |          | ЭТ | УЗ | СК | ПРИБ | ПРИБ     |      | ЭТ | УЗ | СК | ПРИБ | ПРИБ |      |
| Г        | 15 | -  | -    | -    |          | Г  | 15 | -  | -    | -        |      | Г  | 15 | -  | -    | -    |      |
| 0        | 20 | -  | -    | -    |          | 0  | 20 | -  | -    | -        |      | 0  | 20 | -  | -    | -    |      |
| 1        | 15 | 0  | .00  |      | 0        | 1  | 15 | 4  | 1.51 |          | 930  | 1  | 15 | 4  | 1.51 |      | 930  |
| 2        | 15 | 0  | .00  |      | 0        | 2  | 15 | 3  | 1.13 |          | 700  | 2  | 15 | 3  | 1.13 |      | 700  |
| 3        | 20 | 0  | .00  |      | 0        | 3  | 15 | 3  | 1.18 |          | 700  | 3  | 15 | 3  | 1.18 |      | 700  |
| 4        | 20 | 5  | 1.62 |      | 1100     | 4  | 15 | 4  | 1.24 |          | 700  | 4  | 15 | 4  | 1.23 |      | 700  |
| 5        | 20 | 5  | 1.71 |      | 1100     | 5  | 15 | 4  | 1.31 |          | 700  | 5  | 15 | 4  | 1.30 |      | 700  |
| 6        | 20 | 5  | 1.81 |      | 1100     | 6  | 20 | 4  | 1.33 |          | 700  | 6  | 20 | 4  | 1.32 |      | 700  |
| 7        | 20 | 6  | 1.91 |      | 1100     | 7  | 20 | 4  | 1.41 |          | 700  | 7  | 20 | 4  | 1.40 |      | 700  |
| 8        | 20 | 6  | 2.04 |      | 1100     | 8  | 20 | 4  | 1.50 |          | 700  | 8  | 20 | 4  | 1.48 |      | 700  |
| 9        | 20 | 10 | 3.54 |      | 1590     | 9  | 20 | 7  | 2.53 |          | 1030 | 9  | 20 | 7  | 2.49 |      | 1030 |
| 9        | 20 | 4  | 1.30 |      | 780      | 9  | 20 | 0  | .00  |          | 0    | 9  | 20 | 0  | .00  |      | 0    |
| 8        | 20 | 2  | .57  |      | 425      | 8  | 20 | 0  | .00  |          | 0    | 8  | 20 | 0  | .00  |      | 0    |
| 7        | 20 | 2  | .62  |      | 430      | 7  | 20 | 0  | .00  |          | 0    | 7  | 20 | 0  | .00  |      | 0    |
| 6        | 20 | 2  | .67  |      | 440      | 6  | 20 | 0  | .00  |          | 0    | 6  | 20 | 0  | .00  |      | 0    |
| 5        | 20 | 2  | .73  |      | 450      | 5  | 20 | 0  | .00  |          | 0    | 5  | 20 | 0  | .00  |      | 0    |
| 4        | 20 | 2  | .79  |      | 460      | 4  | 20 | 0  | .00  |          | 0    | 4  | 20 | 0  | .00  |      | 0    |
| 3        | 20 | 3  | .87  |      | 475      | 3  | 20 | 6  | 2.13 |          | 1100 | 3  | 20 | 7  | 2.20 |      | 1100 |
| 2        | 20 | 3  | .96  |      | 490      | 2  | 20 | 7  | 2.44 |          | 1100 | 2  | 20 | 7  | 2.43 |      | 1100 |
| 1        | 20 | 5  | 1.73 |      | 735      | 1  | 20 | 12 | 3.95 |          | 1450 | 1  | 20 | 12 | 3.95 |      | 1450 |

17432-05

| СТОЯК-31. |    |    |      |       | СТОЯК-32 |    |    |      |       |
|-----------|----|----|------|-------|----------|----|----|------|-------|
| И         | Д  | Ч  | Р    | Q     | И        | Д  | Ч  | Р    | Q     |
| ЭТ        | УЗ | СК | ПРИБ | ПРИБ. | ЭТ       | УЗ | СК | ПРИБ | ПРИБ. |
| Г         | 15 | -  | -    | -     | Г        | 15 | -  | -    | -     |
| О         | 20 | -  | -    | -     | О        | 20 | -  | -    | -     |
| 1         | 15 | 0  | .00  | 0     | 1        | 15 | 0  | .00  | 0     |
| 2         | 15 | 0  | .00  | 0     | 2        | 15 | 0  | .00  | 0     |
| 3         | 15 | 0  | .00  | 0     | 3        | 15 | 0  | .00  | 0     |
| 4         | 20 | 5  | 1.58 | 1100  | 4        | 15 | 0  | .00  | 0     |
| 5         | 20 | 5  | 1.68 | 1100  | 5        | 15 | 0  | .00  | 0     |
| 6         | 20 | 5  | 1.78 | 1100  | 6        | 15 | 0  | .00  | 0     |
| 7         | 20 | 6  | 1.88 | 1100  | 7        | 15 | 0  | .00  | 0     |
| 8         | 20 | 6  | 2.01 | 1100  | 8        | 15 | 0  | .00  | 0     |
| 9         | 20 | 10 | 3.47 | 1590  | 9        | 15 | 0  | .00  | 0     |
| 9         | 20 | 4  | 1.27 | 780   | 9        | 15 | 6  | 2.16 | 1520  |
| 8         | 20 | 2  | .56  | 425   | 8        | 15 | 4  | 1.27 | 960   |
| 7         | 20 | 2  | .60  | 430   | 7        | 15 | 4  | 1.37 | 960   |
| 6         | 20 | 2  | .66  | 440   | 6        | 15 | 4  | 1.48 | 960   |
| 5         | 20 | 2  | .71  | 450   | 5        | 20 | 5  | 1.53 | 960   |
| 4         | 20 | 2  | .78  | 460   | 4        | 20 | 5  | 1.68 | 960   |
| 3         | 20 | 3  | .85  | 475   | 3        | 20 | 5  | 1.85 | 960   |
| 2         | 20 | 3  | .94  | 490   | 2        | 20 | 6  | 2.02 | 960   |
| 1         | 20 | 5  | 1.70 | 735   | 1        | 20 | 11 | 3.64 | 1360  |

### КОМПЛЕКТОВОЧНАЯ ТАБЛИЦА

[illegible]

## СПЕЦИФИКАЦИЯ

ОТОПЛЕНИЕ (НИЖЕ ОТМЕТКИ 0,00)

| Поз. | ОБОЗНАЧЕНИЕ   | НАИМЕНОВАНИЕ                         | КОЛ-ВО | МАССА (ЕД. КГ) | ПРИМ. |
|------|---------------|--------------------------------------|--------|----------------|-------|
|      |               | ТРУБОПРОВОД ИЗ ЛЕГКИХ ВО-            |        |                |       |
|      |               | ДОГАЗОПРОВОДНЫХ ТРУБ ПО              |        |                |       |
|      |               | ГОСТ 3262-78:                        |        |                |       |
| 1    |               | Д15, М                               | 62     |                | 62    |
| 2    |               | Д20, М                               | 69     |                | 1     |
| 3    |               | Д25, М                               | 24     |                | 19    |
| 4    |               | Д32, М                               | 71     |                | 40    |
| 5    |               | Д40, М                               | 47     |                | 20    |
| 6    |               | Д50, М                               | 136    |                | 69    |
| 7    | ГОСТ 10704-76 | ТРУБА 76X2,8, М                      | 25     |                | 12    |
| 8    | ГОСТ 10704-76 | ТРУБА 89X2,8, М                      | 31     |                | 15    |
|      |               | ГОСТ 18161-72 ВЕНТИЛЬ ЗАПОРНЫЙ       |        |                |       |
|      |               | МУФТОВЫЙ 15КЧ18БР                    |        |                |       |
| 9    |               | Д15                                  | 28     |                | 0     |
| 10   |               | Д20                                  | 1      |                | 0     |
| 11   |               | Д25                                  | 3      |                | 0     |
|      |               | ГОСТ 2704-77 КРАН КОНУСНЫЙ ПРОХОДНОЙ |        |                |       |
|      |               | САЛЬНИКОВЫЙ МУФТОВЫЙ                 |        |                |       |
|      |               | 11Б6БК:                              |        |                |       |
| 12   |               | Д20                                  | 31     |                | 0     |
| 13   |               | Д25                                  | 1      |                | 0     |
|      |               | ГОСТ 22595-77 КРАН ПРОБНО-СПУСКНОЙ   |        |                |       |
|      |               | САЛЬНИКОВЫЙ ЛАТУННЫЙ                 |        |                |       |
|      |               | 10Б19БК ИСП, 3                       |        |                |       |
| 14   |               | Д15                                  | 68     |                | 0     |
|      |               | ГОСТ 8437-75 ЗАДВИЖКА ПАРАЛЛЕЛЬНАЯ С |        |                |       |
|      |               | ВЫДВИЖНЫМ ШПИДЕЛЕМ                   |        |                |       |
|      |               | ФЛАНЦЕВАЯ 30Ч6БР ИСП, 3              |        |                |       |
| 15   |               | Д80                                  | 4      |                | 0     |
|      |               | 903-04-13 УЗЕЛ УПРАВЛЕНИЯ            |        |                |       |
| 16   |               | КОМПЛЕКТОВочный                      | 1      |                | 0     |
|      |               | ОТОПЛЕНИЕ (ВЫШЕ ОТМЕТКИ 0,00)        |        |                |       |
|      |               | ТРУБОПРОВОД ИЗ ЛЕГКИХ ВО-            |        |                |       |
|      |               | ДОГАЗОПРОВОДНЫХ ТРУБ ПО              |        |                |       |

| Кол-во | Обозначение | Наименование | Кол-во | Масса | Прим. |
|--------|-------------|--------------|--------|-------|-------|
| шт     |             |              | шт     | кг    |       |

|    |               |                          |      |  |    |
|----|---------------|--------------------------|------|--|----|
|    | ГОСТ 3262-78: |                          |      |  |    |
| 17 |               | Д15,М                    | 512  |  | 11 |
| 18 |               | Д20,М                    | 1432 |  | 82 |
| 19 |               | Д25,М                    | 27   |  | 0  |
| 20 | ГОСТ 10944-75 | КРАН ТРЕХХОДОВОЙ КРТ Д15 | 56   |  | 0  |
| 21 | ГОСТ 10944-75 | КРАН ТРЕХХОДОВОЙ КРТ Д20 | 304  |  | 0  |

|    |                            |       |    |  |   |
|----|----------------------------|-------|----|--|---|
|    | РЕГИСТР ИЗ ВОДОГАЗОПРОВОД- |       |    |  |   |
|    | НЫХ ТРУБ ПО ГОСТ 3262-75   |       |    |  |   |
| 22 |                            | Д20,М | 13 |  | 0 |

|    |                      |                  |       |  |   |
|----|----------------------|------------------|-------|--|---|
|    | КРАН ВОЗДУХОСПУСКНОЙ |                  |       |  |   |
| 23 |                      | Т.МАЕВСКОГО      | 32    |  | 0 |
|    | ГОСТ 8690-75         | РАДИАТОР М140-А0 |       |  |   |
| 24 |                      | ЭКМ              | 663,9 |  |   |
| 25 |                      | СЕК              | 1897  |  |   |

|    |                                 |                       |   |  |  |
|----|---------------------------------|-----------------------|---|--|--|
|    | ГОСТ 20849-75 КОНВЕКТОР ВЫСОКИЙ |                       |   |  |  |
| 26 |                                 | С КОЖУХОМ КВ20-12-900 | 3 |  |  |

УДЕЛЬНЫЙ РАСХОД МЕТАЛЛА .8-КГ/КВ,М

ПРИМЕЧАНИЕ: В ГРАФЕ "ПРИМ" УКАЗАНА ДЛИНА ИЗОЛИРОВАННЫХ ТРУБОПРОВОДОВ

## СИСТЕМА С КРАНАМИ ДВОЙНОЙ РЕГУЛИРОВКИ

НАРУЖНАЯ ТЕМПЕРАТУРА -35

H НАС. ФАКТИЧ. = 1528.3

Q СИСТЕМЫ = 357743

ТАБЛИЦА ДИАМЕТРОВ МАГИСТРАЛЬНЫХ УЧАСТКОВ,  
МАГИСТРАЛЕЙ И ГЛАВНОГО СТОЯКА

| № ВЕТВИ | № МАГИСТР. УЧАСТКА | ДИАМЕТР УЧАСТКА |
|---------|--------------------|-----------------|
| 1       | 01                 | 32              |
| 1       | 02                 | 40              |
| 1       | 03                 | 40              |
| 1       | 04                 | 50              |
| 1       | 05                 | 50              |
| 1       | М1                 | 50              |
| 2       | 01                 | 32              |
| 2       | 02                 | 40              |
| 2       | 03                 | 50              |
| 2       | 04                 | 50              |
| 2       | 05                 | 50              |
| 2       | 06                 | 70              |
| 2       | М1                 | 70              |
| 3       | 01                 | 32              |
| 3       | 02                 | 32              |
| 3       | 03                 | 32              |
| 3       | 04                 | 40              |
| 3       | 05                 | 50              |
| 3       | 06                 | 50              |
| 3       | М2                 | 50              |
| 4       | 01                 | 32              |
| 4       | 02                 | 32              |
| 4       | 03                 | 40              |
| 4       | 04                 | 50              |
| 4       | 05                 | 50              |
| 4       | 06                 | 50              |
| 4       | 07                 | 50              |
| 4       | М2                 | 50              |
| -       | МГ-1               | 70              |
| -       | МО-1               | 70              |
| -       | МГ-2               | 80              |
| -       | МО-2               | 80              |
| -       | ГЛ.С               | 80              |

## ТАБЛИЦЫ РАСЧЕТА НАГРЕВАТЕЛЬНЫХ ПРИБОРОВ

| СТОЯК- 1 |    |    |      | СТОЯК- 2 |   |    |    | СТОЯК- 3 |      |       |   |
|----------|----|----|------|----------|---|----|----|----------|------|-------|---|
| N        | Д  | Ч  | С    | F        | Q | N  | Д  | Ч        | С    | F     | Q |
| ЭТ       | УЗ | СК | ПРИБ | ПРИБ.    |   | ЭТ | УЗ | СК       | ПРИБ | ПРИБ. |   |
| Г        | 25 | -  | -    | -        |   | Г  | 15 | -        | -    | -     |   |
| О        | 25 | -  | -    | -        |   | О  | 20 | -        | -    | -     |   |
| 1        | 20 | 5  | 1,77 | 1085     |   | 1  | 20 | 6        | 2,04 | 1175  |   |
| 2        | 20 | 4  | 1,41 | 869      |   | 2  | 20 | 5        | 1,62 | 940   |   |
| 3        | 20 | 4  | 1,46 | 869      |   | 3  | 20 | 5        | 1,73 | 940   |   |
| 4        | 20 | 4  | 1,52 | 869      |   | 4  | 20 | 5        | 1,84 | 940   |   |
| 5        | 20 | 5  | 1,58 | 869      |   | 5  | 20 | 6        | 1,96 | 940   |   |
| 6        | 20 | 5  | 1,65 | 869      |   | 6  | 20 | 6        | 2,11 | 940   |   |
| 7        | 20 | 5  | 1,72 | 869      |   | 7  | 20 | 7        | 2,26 | 940   |   |
| 8        | 20 | 5  | 1,80 | 869      |   | 8  | 20 | 7        | 2,44 | 940   |   |
| 9        | 20 | 8  | 2,59 | 1139     |   | 9  | 20 | 11       | 3,78 | 1240  |   |
| 9        | 25 | 7  | 2,42 | 1240     |   | 9  | 20 | 4        | 1,32 | 730   |   |
| 8        | 25 | 5  | 1,84 | 940      |   | 8  | 20 | 2        | ,40  | 340   |   |
| 7        | 25 | 6  | 1,96 | 940      |   | 7  | 20 | 2        | ,43  | 340   |   |
| 6        | 25 | 6  | 2,09 | 940      |   | 6  | 20 | 2        | ,49  | 350   |   |
| 5        | 25 | 7  | 2,22 | 940      |   | 5  | 20 | 2        | ,51  | 350   |   |
| 4        | 25 | 7  | 2,39 | 940      |   | 4  | 20 | 2        | ,58  | 360   |   |
| 3        | 25 | 8  | 2,56 | 940      |   | 3  | 20 | 2        | ,64  | 370   |   |
| 2        | 25 | 8  | 2,77 | 940      |   | 2  | 20 | 2        | ,71  | 380   |   |
| 1        | 25 | 11 | 3,86 | 1175     |   | 1  | 20 | 5        | 1,59 | 640   |   |

| СТОЯК- 4 |    |    |      | СТОЯК- 5 |   |    |    | СТОЯК- 6 |      |       |   |
|----------|----|----|------|----------|---|----|----|----------|------|-------|---|
| N        | Д  | Ч  | С    | F        | Q | N  | Д  | Ч        | С    | F     | Q |
| ЭТ       | УЗ | СК | ПРИБ | ПРИБ.    |   | ЭТ | УЗ | СК       | ПРИБ | ПРИБ. |   |
| Г        | 15 | -  | -    | -        |   | Г  | 15 | -        | -    | -     |   |
| О        | 20 | -  | -    | -        |   | О  | 20 | -        | -    | -     |   |
| 1        | 15 | 0  | ,00  | 0        |   | 1  | 15 | 5        | 1,82 | 1090  |   |
| 2        | 15 | 0  | ,00  | 0        |   | 2  | 15 | 3        | 1,13 | 730   |   |
| 3        | 15 | 0  | ,00  | 0        |   | 3  | 15 | 3        | 1,18 | 730   |   |
| 4        | 15 | 0  | ,00  | 0        |   | 4  | 20 | 3        | 1,17 | 730   |   |
| 5        | 15 | 0  | ,00  | 0        |   | 5  | 20 | 4        | 1,23 | 730   |   |
| 6        | 15 | 0  | ,00  | 0        |   | 6  | 20 | 4        | 1,30 | 730   |   |
| 7        | 15 | 0  | ,00  | 0        |   | 7  | 20 | 4        | 1,38 | 730   |   |
| 8        | 15 | 0  | ,00  | 0        |   | 8  | 20 | 4        | 1,47 | 730   |   |
| 9        | 15 | 0  | ,00  | 0        |   | 9  | 20 | 10       | 3,27 | 1270  |   |
| 9        | 15 | 7  | 2,32 | 1590     |   | 9  | 20 | 4        | 1,21 | 750   |   |
| 8        | 20 | 3  | 1,14 | 960      |   | 8  | 20 | 2        | ,31  | 330   |   |
| 7        | 20 | 4  | 1,22 | 960      |   | 7  | 20 | 2        | ,33  | 330   |   |
| 6        | 20 | 4  | 1,34 | 960      |   | 6  | 20 | 2        | ,38  | 340   |   |
| 5        | 20 | 4  | 1,45 | 960      |   | 5  | 20 | 2        | ,44  | 350   |   |
| 4        | 20 | 5  | 1,58 | 960      |   | 4  | 20 | 2        | ,47  | 350   |   |
| 3        | 20 | 5  | 1,74 | 960      |   | 3  | 20 | 2        | ,53  | 360   |   |
| 2        | 20 | 6  | 1,91 | 960      |   | 2  | 20 | 2        | ,59  | 370   |   |
| 1        | 20 | 12 | 3,93 | 1450     |   | 1  | 20 | 4        | 1,47 | 650   |   |

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## СТОЯК- 7

## СТОЯК- 8

## СТОЯК- 9

| IN | Д  | Ч  | С    | Р    | О | IN | Д  | Ч  | С    | Р    | О | IN | Д  | Ч  | С    | Р    | О |
|----|----|----|------|------|---|----|----|----|------|------|---|----|----|----|------|------|---|
| ЭТ | УЗ | СК | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   |
| Г  | 15 | -  | -    | -    |   | Г  | 15 | -  | -    | -    |   | Г  | 15 | -  | -    | -    |   |
| О  | 20 | -  | -    | -    |   | О  | 20 | -  | -    | -    |   | О  | 20 | -  | -    | -    |   |
| 1  | 15 | 0  | .00  | 0    |   | 1  | 20 | 5  | 1.80 | 1090 |   | 1  | 15 | 0  | .00  | 0    |   |
| 2  | 15 | 0  | .00  | 0    |   | 2  | 20 | 3  | 1.10 | 730  |   | 2  | 15 | 0  | .00  | 0    |   |
| 3  | 15 | 0  | .00  | 0    |   | 3  | 20 | 3  | 1.15 | 730  |   | 3  | 15 | 0  | .00  | 0    |   |
| 4  | 15 | 0  | .00  | 0    |   | 4  | 20 | 4  | 1.21 | 730  |   | 4  | 15 | 0  | .00  | 0    |   |
| 5  | 15 | 0  | .00  | 0    |   | 5  | 20 | 4  | 1.28 | 730  |   | 5  | 15 | 0  | .00  | 0    |   |
| 6  | 15 | 0  | .00  | 0    |   | 6  | 20 | 4  | 1.37 | 730  |   | 6  | 15 | 0  | .00  | 0    |   |
| 7  | 15 | 0  | .00  | 0    |   | 7  | 20 | 4  | 1.45 | 730  |   | 7  | 15 | 0  | .00  | 0    |   |
| 8  | 15 | 0  | .00  | 0    |   | 8  | 20 | 5  | 1.53 | 730  |   | 8  | 15 | 0  | .00  | 0    |   |
| 9  | 15 | 0  | .00  | 0    |   | 9  | 20 | 10 | 3.45 | 1270 |   | 9  | 15 | 0  | .00  | 0    |   |
| 9  | 15 | 7  | 2.30 | 1590 |   | 9  | 20 | 4  | 1.27 | 750  |   | 9  | 15 | 7  | 2.39 | 1590 |   |
| 8  | 15 | 4  | 1.20 | 960  |   | 8  | 20 | 2  | .33  | 330  |   | 8  | 15 | 4  | 1.25 | 960  |   |
| 7  | 20 | 4  | 1.22 | 960  |   | 7  | 20 | 2  | .36  | 330  |   | 7  | 15 | 4  | 1.36 | 960  |   |
| 6  | 20 | 4  | 1.33 | 960  |   | 6  | 20 | 2  | .41  | 340  |   | 6  | 20 | 4  | 1.40 | 960  |   |
| 5  | 20 | 4  | 1.45 | 960  |   | 5  | 20 | 2  | .47  | 350  |   | 5  | 20 | 4  | 1.52 | 960  |   |
| 4  | 20 | 5  | 1.58 | 960  |   | 4  | 20 | 2  | .50  | 350  |   | 4  | 20 | 5  | 1.65 | 960  |   |
| 3  | 20 | 5  | 1.74 | 960  |   | 3  | 20 | 2  | .56  | 360  |   | 3  | 20 | 5  | 1.81 | 960  |   |
| 2  | 20 | 6  | 1.91 | 960  |   | 2  | 20 | 2  | .63  | 370  |   | 2  | 20 | 6  | 1.99 | 960  |   |
| 1  | 20 | 11 | 3.56 | 1350 |   | 1  | 20 | 5  | 1.55 | 650  |   | 1  | 20 | 12 | 4.09 | 1450 |   |

## СТОЯК-10

## СТОЯК-11

## СТОЯК-12

| IN | Д  | Ч       | С    | Р    | О | IN | Д  | Ч  | С    | Р    | О | IN | Д  | Ч  | С    | Р    | О |
|----|----|---------|------|------|---|----|----|----|------|------|---|----|----|----|------|------|---|
| ЭТ | УЗ | СК      | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   |
| Г  | 20 | -       | -    | -    |   | Г  | 15 | -  | -    | -    |   | Г  | 15 | -  | -    | -    |   |
| О  | 20 | -       | -    | -    |   | О  | 20 | -  | -    | -    |   | О  | 20 | -  | -    | -    |   |
| 1  | 20 | КВ12    |      | 6580 |   | 1  | 15 | 0  | .00  | 0    |   | 1  | 15 | 5  | 1.84 | 1090 |   |
| 2  | 20 | 4       | 1.32 | 700  |   | 2  | 15 | 0  | .00  | 0    |   | 2  | 15 | 3  | 1.14 | 730  |   |
| 3  | 20 | 4       | 1.37 | 700  |   | 3  | 15 | 0  | .00  | 0    |   | 3  | 15 | 4  | 1.20 | 730  |   |
| 4  | 20 | 4       | 1.43 | 700  |   | 4  | 15 | 0  | .00  | 0    |   | 4  | 15 | 4  | 1.26 | 730  |   |
| 5  | 20 | 4       | 1.50 | 700  |   | 5  | 15 | 0  | .00  | 0    |   | 5  | 20 | 4  | 1.27 | 730  |   |
| 6  | 20 | 5       | 1.56 | 700  |   | 6  | 15 | 0  | .00  | 0    |   | 6  | 20 | 4  | 1.36 | 730  |   |
| 7  | 20 | 5       | 1.63 | 700  |   | 7  | 15 | 0  | .00  | 0    |   | 7  | 20 | 4  | 1.44 | 730  |   |
| 8  | 20 | 5       | 1.71 | 700  |   | 8  | 15 | 0  | .00  | 0    |   | 8  | 20 | 5  | 1.53 | 730  |   |
| 9  | 20 | 12      | 4.03 | 1395 |   | 9  | 15 | 0  | .00  | 0    |   | 9  | 20 | 10 | 3.43 | 1270 |   |
| 9  | 20 | 0       | .00  | 0    |   | 9  | 15 | 7  | 2.38 | 1590 |   | 9  | 20 | 4  | 1.27 | 750  |   |
| 8  | 20 | 0       | .00  | 0    |   | 8  | 15 | 4  | 1.25 | 960  |   | 8  | 20 | 2  | .33  | 330  |   |
| 7  | 20 | 0       | .00  | 0    |   | 7  | 15 | 4  | 1.35 | 960  |   | 7  | 20 | 2  | .36  | 330  |   |
| 6  | 20 | 0       | .00  | 0    |   | 6  | 15 | 4  | 1.47 | 960  |   | 6  | 20 | 2  | .41  | 340  |   |
| 5  | 20 | 0       | .00  | 0    |   | 5  | 20 | 4  | 1.51 | 960  |   | 5  | 20 | 2  | .47  | 350  |   |
| 4  | 20 | 0       | .00  | 0    |   | 4  | 20 | 5  | 1.64 | 960  |   | 4  | 20 | 2  | .50  | 350  |   |
| 3  | 20 | 0       | .00  | 0    |   | 3  | 20 | 5  | 1.81 | 960  |   | 3  | 20 | 2  | .56  | 360  |   |
| 2  | 20 | 0       | .00  | 0    |   | 2  | 20 | 6  | 1.98 | 960  |   | 2  | 20 | 2  | .63  | 370  |   |
| 1  | 20 | РЕГИСТР |      | 800  |   | 1  | 20 | 11 | 3.68 | 1350 |   | 1  | 20 | 5  | 1.55 | 650  |   |

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## СТОЯК-13

## СТОЯК-14

## СТОЯК-15

| IN | Д  | Ч  | С    | Р    | В    | Q    | IN | Д  | Ч  | С    | Р    | В    | Q    | IN | Д  | Ч       | С    | Р    | В    | Q    |
|----|----|----|------|------|------|------|----|----|----|------|------|------|------|----|----|---------|------|------|------|------|
| ЭТ | УЗ | СК | ПРИБ | ПРИБ | ПРИБ | ПРИБ | ЭТ | УЗ | СК | ПРИБ | ПРИБ | ПРИБ | ПРИБ | ЭТ | УЗ | СК      | ПРИБ | ПРИБ | ПРИБ | ПРИБ |
| Г  | 15 | -  | -    | -    | -    | -    | Г  | 15 | -  | -    | -    | -    | -    | Г  | 15 | -       | -    | -    | -    | -    |
| О  | 20 | -  | -    | -    | -    | -    | О  | 20 | -  | -    | -    | -    | -    | О  | 20 | -       | -    | -    | -    | -    |
| 1  | 15 | 5  | 1.83 | 1090 |      |      | 1  | 15 | 0  | .00  | 0    |      |      | 1  | 20 | КВ12    |      | 6580 |      |      |
| 2  | 15 | 3  | 1.14 | 730  |      |      | 2  | 15 | 0  | .00  | 0    |      |      | 2  | 20 | 4       | 1.33 | 700  |      |      |
| 3  | 15 | 4  | 1.19 | 730  |      |      | 3  | 15 | 0  | .00  | 0    |      |      | 3  | 20 | 4       | 1.39 | 700  |      |      |
| 4  | 15 | 4  | 1.25 | 730  |      |      | 4  | 15 | 0  | .00  | 0    |      |      | 4  | 20 | 4       | 1.46 | 700  |      |      |
| 5  | 20 | 4  | 1.27 | 730  |      |      | 5  | 15 | 0  | .00  | 0    |      |      | 5  | 20 | 5       | 1.53 | 700  |      |      |
| 6  | 20 | 4  | 1.35 | 730  |      |      | 6  | 15 | 0  | .00  | 0    |      |      | 6  | 20 | 5       | 1.61 | 700  |      |      |
| 7  | 20 | 4  | 1.43 | 730  |      |      | 7  | 15 | 0  | .00  | 0    |      |      | 7  | 20 | 5       | 1.71 | 700  |      |      |
| 8  | 20 | 4  | 1.51 | 730  |      |      | 8  | 15 | 0  | .00  | 0    |      |      | 8  | 20 | 5       | 1.79 | 700  |      |      |
| 9  | 20 | 10 | 3.36 | 1270 |      |      | 9  | 15 | 0  | .00  | 0    |      |      | 9  | 20 | 13      | 4.29 | 1395 |      |      |
| 9  | 20 | 4  | 1.24 | 750  |      |      | 9  | 15 | 7  | 2.32 | 1590 |      |      | 9  | 20 | 0       | .00  | 0    |      |      |
| 8  | 20 | 2  | .32  | 330  |      |      | 8  | 15 | 4  | 1.21 | 960  |      |      | 8  | 20 | 0       | .00  | 0    |      |      |
| 7  | 20 | 2  | .35  | 330  |      |      | 7  | 15 | 4  | 1.31 | 960  |      |      | 7  | 20 | 0       | .00  | 0    |      |      |
| 6  | 20 | 2  | .40  | 340  |      |      | 6  | 15 | 4  | 1.42 | 960  |      |      | 6  | 20 | 0       | .00  | 0    |      |      |
| 5  | 20 | 2  | .46  | 350  |      |      | 5  | 20 | 4  | 1.46 | 960  |      |      | 5  | 20 | 0       | .00  | 0    |      |      |
| 4  | 20 | 2  | .49  | 350  |      |      | 4  | 20 | 5  | 1.58 | 960  |      |      | 4  | 20 | 0       | .00  | 0    |      |      |
| 3  | 20 | 2  | .55  | 360  |      |      | 3  | 20 | 5  | 1.74 | 960  |      |      | 3  | 20 | 0       | .00  | 0    |      |      |
| 2  | 20 | 2  | .61  | 370  |      |      | 2  | 20 | 6  | 1.92 | 960  |      |      | 2  | 20 | 0       | .00  | 0    |      |      |
| 1  | 20 | 4  | 1.51 | 650  |      |      | 1  | 20 | 12 | 3.98 | 1450 |      |      | 1  | 20 | РЕГИСТР |      | 800  |      |      |

## СТОЯК-16

## СТОЯК-17

## СТОЯК-18

| IN | Д  | Ч  | С    | Р    | В    | Q    | IN | Д  | Ч  | С    | Р    | В    | Q    | IN | Д  | Ч  | С    | Р    | В    | Q    |
|----|----|----|------|------|------|------|----|----|----|------|------|------|------|----|----|----|------|------|------|------|
| ЭТ | УЗ | СК | ПРИБ | ПРИБ | ПРИБ | ПРИБ | ЭТ | УЗ | СК | ПРИБ | ПРИБ | ПРИБ | ПРИБ | ЭТ | УЗ | СК | ПРИБ | ПРИБ | ПРИБ | ПРИБ |
| Г  | 25 | -  | -    | -    | -    | -    | Г  | 15 | -  | -    | -    | -    | -    | Г  | 15 | -  | -    | -    | -    | -    |
| О  | 20 | -  | -    | -    | -    | -    | О  | 20 | -  | -    | -    | -    | -    | О  | 20 | -  | -    | -    | -    | -    |
| 1  | 20 | 4  | 1.23 | 840  |      |      | 1  | 15 | 0  | .00  | 0    |      |      | 1  | 15 | 0  | .00  | 0    |      |      |
| 2  | 20 | 2  | .82  | 610  |      |      | 2  | 15 | 0  | .00  | 0    |      |      | 2  | 15 | 0  | .00  | 0    |      |      |
| 3  | 20 | 3  | .86  | 610  |      |      | 3  | 15 | 0  | .00  | 0    |      |      | 3  | 15 | 0  | .00  | 0    |      |      |
| 4  | 20 | 3  | .90  | 610  |      |      | 4  | 15 | 0  | .00  | 0    |      |      | 4  | 15 | 0  | .00  | 0    |      |      |
| 5  | 20 | 3  | .95  | 610  |      |      | 5  | 15 | 0  | .00  | 0    |      |      | 5  | 15 | 0  | .00  | 0    |      |      |
| 6  | 20 | 3  | .99  | 610  |      |      | 6  | 15 | 0  | .00  | 0    |      |      | 6  | 15 | 0  | .00  | 0    |      |      |
| 7  | 20 | 3  | 1.04 | 610  |      |      | 7  | 15 | 0  | .00  | 0    |      |      | 7  | 15 | 0  | .00  | 0    |      |      |
| 8  | 20 | 3  | 1.09 | 610  |      |      | 8  | 15 | 0  | .00  | 0    |      |      | 8  | 15 | 0  | .00  | 0    |      |      |
| 9  | 20 | 6  | 2.08 | 940  |      |      | 9  | 15 | 0  | .00  | 0    |      |      | 9  | 15 | 0  | .00  | 0    |      |      |
| 9  | 20 | 5  | 1.80 | 932  |      |      | 9  | 15 | 7  | 2.32 | 1520 |      |      | 9  | 15 | 7  | 2.29 | 1520 |      |      |
| 8  | 20 | 4  | 1.34 | 711  |      |      | 8  | 20 | 4  | 1.22 | 960  |      |      | 8  | 20 | 4  | 1.20 | 960  |      |      |
| 7  | 20 | 4  | 1.43 | 711  |      |      | 7  | 20 | 4  | 1.34 | 960  |      |      | 7  | 20 | 4  | 1.33 | 960  |      |      |
| 6  | 20 | 4  | 1.52 | 711  |      |      | 6  | 20 | 4  | 1.47 | 960  |      |      | 6  | 20 | 4  | 1.45 | 960  |      |      |
| 5  | 20 | 5  | 1.63 | 711  |      |      | 5  | 20 | 5  | 1.61 | 960  |      |      | 5  | 20 | 5  | 1.59 | 960  |      |      |
| 4  | 20 | 5  | 1.76 | 711  |      |      | 4  | 20 | 5  | 1.79 | 960  |      |      | 4  | 20 | 5  | 1.77 | 960  |      |      |
| 3  | 20 | 6  | 1.90 | 711  |      |      | 3  | 20 | 6  | 1.97 | 960  |      |      | 3  | 20 | 6  | 1.94 | 960  |      |      |
| 2  | 20 | 6  | 2.06 | 711  |      |      | 2  | 20 | 7  | 2.20 | 960  |      |      | 2  | 20 | 6  | 2.16 | 960  |      |      |
| 1  | 20 | 9  | 2.99 | 887  |      |      | 1  | 20 | 12 | 4.18 | 1360 |      |      | 1  | 20 | 12 | 4.07 | 1360 |      |      |

## СТОЯК-19

## СТОЯК-20

## СТОЯК-21

| IN | Д  | Ч  | С    | Р    | О | IN | Д  | Ч  | С    | Р    | О | IN | Д  | Ч  | С    | Р    | О |
|----|----|----|------|------|---|----|----|----|------|------|---|----|----|----|------|------|---|
| ЭТ | УЗ | СК | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   |
| Г  | 15 | -  | -    | -    |   | Г  | 15 | -  | -    | -    |   | Г  | 15 | -  | -    | -    |   |
| О  | 20 | -  | -    | -    |   | О  | 20 | -  | -    | -    |   | О  | 20 | -  | -    | -    |   |
| 1  | 15 | 0  | ,00  | 0    |   | 1  | 15 | 4  | 1,52 | 930  |   | 1  | 15 | 4  | 1,52 | 930  |   |
| 2  | 20 | 0  | ,00  | 0    |   | 2  | 15 | 3  | 1,09 | 700  |   | 2  | 15 | 3  | 1,09 | 700  |   |
| 3  | 20 | 0  | ,00  | 0    |   | 3  | 15 | 3  | 1,15 | 700  |   | 3  | 15 | 3  | 1,15 | 700  |   |
| 4  | 20 | 5  | 1,62 | 1100 |   | 4  | 15 | 4  | 1,21 | 700  |   | 4  | 15 | 4  | 1,21 | 700  |   |
| 5  | 20 | 5  | 1,73 | 1100 |   | 5  | 15 | 4  | 1,29 | 700  |   | 5  | 15 | 4  | 1,29 | 700  |   |
| 6  | 20 | 5  | 1,85 | 1100 |   | 6  | 15 | 4  | 1,37 | 700  |   | 6  | 15 | 4  | 1,37 | 700  |   |
| 7  | 20 | 6  | 1,96 | 1100 |   | 7  | 20 | 4  | 1,39 | 700  |   | 7  | 15 | 4  | 1,45 | 700  |   |
| 8  | 20 | 6  | 2,11 | 1100 |   | 8  | 20 | 4  | 1,48 | 700  |   | 8  | 20 | 4  | 1,47 | 700  |   |
| 9  | 20 | 11 | 3,86 | 1590 |   | 9  | 20 | 8  | 2,68 | 1030 |   | 9  | 20 | 8  | 2,66 | 1030 |   |
| 9  | 20 | 4  | 1,25 | 780  |   | 9  | 20 | 0  | ,00  | 0    |   | 9  | 20 | 0  | ,00  | 0    |   |
| 8  | 20 | 2  | ,51  | 425  |   | 8  | 20 | 0  | ,00  | 0    |   | 8  | 20 | 0  | ,00  | 0    |   |
| 7  | 20 | 2  | ,56  | 430  |   | 7  | 20 | 0  | ,00  | 0    |   | 7  | 20 | 0  | ,00  | 0    |   |
| 6  | 20 | 2  | ,62  | 440  |   | 6  | 20 | 0  | ,00  | 0    |   | 6  | 20 | 0  | ,00  | 0    |   |
| 5  | 20 | 2  | ,68  | 450  |   | 5  | 20 | 0  | ,00  | 0    |   | 5  | 20 | 0  | ,00  | 0    |   |
| 4  | 20 | 2  | ,75  | 460  |   | 4  | 20 | 0  | ,00  | 0    |   | 4  | 20 | 0  | ,00  | 0    |   |
| 3  | 20 | 2  | ,83  | 475  |   | 3  | 20 | 6  | 2,13 | 1100 |   | 3  | 20 | 7  | 2,22 | 1100 |   |
| 2  | 20 | 3  | ,91  | 490  |   | 2  | 20 | 7  | 2,34 | 1100 |   | 2  | 20 | 7  | 2,47 | 1100 |   |
| 1  | 20 | 5  | 1,71 | 735  |   | 1  | 20 | 12 | 4,13 | 1450 |   | 1  | 20 | 12 | 4,12 | 1450 |   |

## СТОЯК-22

## СТОЯК-23

## СТОЯК-24

| IN | Д  | Ч  | С    | Р    | О | IN | Д  | Ч  | С    | Р    | О | IN | Д  | Ч  | С    | Р    | О |
|----|----|----|------|------|---|----|----|----|------|------|---|----|----|----|------|------|---|
| ЭТ | УЗ | СК | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   |
| Г  | 15 | -  | -    | -    |   | Г  | 15 | -  | -    | -    |   | Г  | 15 | -  | -    | -    |   |
| О  | 20 | -  | -    | -    |   | О  | 20 | -  | -    | -    |   | О  | 20 | -  | -    | -    |   |
| 1  | 15 | 0  | ,00  | 0    |   | 1  | 15 | 0  | ,00  | 0    |   | 1  | 15 | 5  | 1,57 | 930  |   |
| 2  | 15 | 0  | ,00  | 0    |   | 2  | 15 | 0  | ,00  | 0    |   | 2  | 15 | 3  | 1,15 | 700  |   |
| 3  | 15 | 0  | ,00  | 0    |   | 3  | 15 | 0  | ,00  | 0    |   | 3  | 20 | 3  | 1,15 | 700  |   |
| 4  | 20 | 5  | 1,58 | 1100 |   | 4  | 15 | 0  | ,00  | 0    |   | 4  | 20 | 4  | 1,21 | 700  |   |
| 5  | 20 | 5  | 1,68 | 1100 |   | 5  | 15 | 0  | ,00  | 0    |   | 5  | 20 | 4  | 1,30 | 700  |   |
| 6  | 20 | 5  | 1,79 | 1100 |   | 6  | 15 | 0  | ,00  | 0    |   | 6  | 20 | 4  | 1,39 | 700  |   |
| 7  | 20 | 6  | 1,90 | 1100 |   | 7  | 15 | 0  | ,00  | 0    |   | 7  | 20 | 4  | 1,49 | 700  |   |
| 8  | 20 | 6  | 2,04 | 1100 |   | 8  | 15 | 0  | ,00  | 0    |   | 8  | 20 | 5  | 1,59 | 700  |   |
| 9  | 20 | 11 | 3,74 | 1590 |   | 9  | 15 | 0  | ,00  | 0    |   | 9  | 20 | 9  | 2,91 | 1030 |   |
| 9  | 20 | 4  | 1,22 | 780  |   | 9  | 15 | 7  | 2,23 | 1520 |   | 9  | 20 | 0  | ,00  | 0    |   |
| 8  | 20 | 2  | ,49  | 425  |   | 8  | 15 | 4  | 1,26 | 960  |   | 8  | 20 | 0  | ,00  | 0    |   |
| 7  | 20 | 2  | ,54  | 430  |   | 7  | 15 | 4  | 1,37 | 960  |   | 7  | 20 | 0  | ,00  | 0    |   |
| 6  | 20 | 2  | ,59  | 440  |   | 6  | 15 | 4  | 1,49 | 960  |   | 6  | 20 | 0  | ,00  | 0    |   |
| 5  | 20 | 2  | ,65  | 450  |   | 5  | 15 | 5  | 1,62 | 960  |   | 5  | 20 | 0  | ,00  | 0    |   |
| 4  | 20 | 2  | ,72  | 460  |   | 4  | 15 | 5  | 1,78 | 960  |   | 4  | 20 | 0  | ,00  | 0    |   |
| 3  | 20 | 2  | ,79  | 475  |   | 3  | 20 | 6  | 1,86 | 960  |   | 3  | 20 | 7  | 2,30 | 1100 |   |
| 2  | 20 | 3  | ,87  | 490  |   | 2  | 20 | 6  | 2,08 | 960  |   | 2  | 20 | 8  | 2,57 | 1100 |   |
| 1  | 20 | 5  | 1,65 | 735  |   | 1  | 20 | 12 | 3,91 | 1360 |   | 1  | 20 | 13 | 4,41 | 1410 |   |

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## СТОЯК-25

## СТОЯК-26

## СТОЯК-27

| IN | Д  | Ч  | С    | Р    | Q | IN | Д  | Ч  | С    | Р    | Q | IN | Д  | Ч  | С    | Р    | Q |
|----|----|----|------|------|---|----|----|----|------|------|---|----|----|----|------|------|---|
| ЭТ | УЗ | СК | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   |
| Г  | 15 | -  | -    | -    |   | Г  | 15 | -  | -    | -    |   | Г  | 15 | -  | -    | -    |   |
| О  | 20 | -  | -    | -    |   | О  | 20 | -  | -    | -    |   | О  | 20 | -  | -    | -    |   |
| 1  | 15 | 0  | .00  | 0    |   | 1  | 15 | 0  | .00  | 0    |   | 1  | 15 | 0  | .00  | 0    |   |
| 2  | 20 | 0  | .00  | 0    |   | 2  | 15 | 0  | .00  | 0    |   | 2  | 15 | 0  | .00  | 0    |   |
| 3  | 20 | 0  | .00  | 0    |   | 3  | 15 | 0  | .00  | 0    |   | 3  | 15 | 0  | .00  | 0    |   |
| 4  | 20 | 5  | 1.66 | 1100 |   | 4  | 15 | 0  | .00  | 0    |   | 4  | 15 | 0  | .00  | 0    |   |
| 5  | 20 | 5  | 1.78 | 1100 |   | 5  | 15 | 0  | .00  | 0    |   | 5  | 15 | 0  | .00  | 0    |   |
| 6  | 20 | 6  | 1.89 | 1100 |   | 6  | 15 | 0  | .00  | 0    |   | 6  | 15 | 0  | .00  | 0    |   |
| 7  | 20 | 6  | 2.03 | 1100 |   | 7  | 15 | 0  | .00  | 0    |   | 7  | 15 | 0  | .00  | 0    |   |
| 8  | 20 | 6  | 2.18 | 1100 |   | 8  | 15 | 0  | .00  | 0    |   | 8  | 15 | 0  | .00  | 0    |   |
| 9  | 20 | 12 | 3.97 | 1590 |   | 9  | 15 | 0  | .00  | 0    |   | 9  | 15 | 0  | .00  | 0    |   |
| 9  | 20 | 4  | 1.30 | 780  |   | 9  | 15 | 6  | 2.18 | 1520 |   | 9  | 15 | 7  | 2.33 | 1520 |   |
| 8  | 20 | 2  | .54  | 425  |   | 8  | 15 | 4  | 1.20 | 960  |   | 8  | 15 | 4  | 1.32 | 960  |   |
| 7  | 20 | 2  | .58  | 430  |   | 7  | 20 | 4  | 1.24 | 960  |   | 7  | 15 | 4  | 1.44 | 960  |   |
| 6  | 20 | 2  | .64  | 440  |   | 6  | 20 | 4  | 1.38 | 960  |   | 6  | 15 | 5  | 1.57 | 960  |   |
| 5  | 20 | 2  | .71  | 450  |   | 5  | 20 | 4  | 1.52 | 960  |   | 5  | 20 | 5  | 1.64 | 960  |   |
| 4  | 20 | 2  | .77  | 460  |   | 4  | 20 | 5  | 1.68 | 960  |   | 4  | 20 | 5  | 1.82 | 960  |   |
| 3  | 20 | 3  | .86  | 475  |   | 3  | 20 | 6  | 1.87 | 960  |   | 3  | 20 | 6  | 2.01 | 960  |   |
| 2  | 20 | 3  | .95  | 490  |   | 2  | 20 | 8  | 2.84 | 1060 |   | 2  | 20 | 7  | 2.24 | 960  |   |
| 1  | 20 | 6  | 1.92 | 775  |   | 1  | 20 | 5  | 1.55 | 750  |   | 1  | 20 | 14 | 4.74 | 1460 |   |

## СТОЯК-28

## СТОЯК-29

## СТОЯК-30

| IN | Д  | Ч  | С    | Р    | Q | IN | Д  | Ч  | С    | Р    | Q | IN | Д  | Ч  | С    | Р    | Q |
|----|----|----|------|------|---|----|----|----|------|------|---|----|----|----|------|------|---|
| ЭТ | УЗ | СК | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   |
| Г  | 15 | -  | -    | -    |   | Г  | 15 | -  | -    | -    |   | Г  | 15 | -  | -    | -    |   |
| О  | 20 | -  | -    | -    |   | О  | 20 | -  | -    | -    |   | О  | 20 | -  | -    | -    |   |
| 1  | 15 | 0  | .00  | 0    |   | 1  | 15 | 5  | 1.54 | 930  |   | 1  | 15 | 5  | 1.53 | 930  |   |
| 2  | 15 | 0  | .00  | 0    |   | 2  | 15 | 3  | 1.12 | 700  |   | 2  | 15 | 3  | 1.11 | 700  |   |
| 3  | 20 | 0  | .00  | 0    |   | 3  | 15 | 3  | 1.18 | 700  |   | 3  | 15 | 3  | 1.18 | 700  |   |
| 4  | 20 | 5  | 1.62 | 1100 |   | 4  | 15 | 4  | 1.24 | 700  |   | 4  | 15 | 4  | 1.24 | 700  |   |
| 5  | 20 | 5  | 1.73 | 1100 |   | 5  | 15 | 4  | 1.33 | 700  |   | 5  | 15 | 4  | 1.33 | 700  |   |
| 6  | 20 | 5  | 1.85 | 1100 |   | 6  | 15 | 4  | 1.41 | 700  |   | 6  | 15 | 4  | 1.41 | 700  |   |
| 7  | 20 | 6  | 1.96 | 1100 |   | 7  | 15 | 4  | 1.50 | 700  |   | 7  | 15 | 4  | 1.50 | 700  |   |
| 8  | 20 | 6  | 2.11 | 1100 |   | 8  | 20 | 5  | 1.53 | 700  |   | 8  | 15 | 5  | 1.60 | 700  |   |
| 9  | 20 | 11 | 3.86 | 1590 |   | 9  | 20 | 8  | 2.80 | 1030 |   | 9  | 20 | 8  | 2.81 | 1030 |   |
| 9  | 20 | 4  | 1.25 | 780  |   | 9  | 20 | 0  | .00  | 0    |   | 9  | 20 | 0  | .00  | 0    |   |
| 8  | 20 | 2  | .51  | 425  |   | 8  | 20 | 0  | .00  | 0    |   | 8  | 20 | 0  | .00  | 0    |   |
| 7  | 20 | 2  | .56  | 430  |   | 7  | 20 | 0  | .00  | 0    |   | 7  | 20 | 0  | .00  | 0    |   |
| 6  | 20 | 2  | .62  | 440  |   | 6  | 20 | 0  | .00  | 0    |   | 6  | 20 | 0  | .00  | 0    |   |
| 5  | 20 | 2  | .68  | 450  |   | 5  | 20 | 0  | .00  | 0    |   | 5  | 20 | 0  | .00  | 0    |   |
| 4  | 20 | 2  | .75  | 460  |   | 4  | 20 | 0  | .00  | 0    |   | 4  | 20 | 0  | .00  | 0    |   |
| 3  | 20 | 2  | .83  | 475  |   | 3  | 20 | 6  | 2.17 | 1100 |   | 3  | 20 | 7  | 2.32 | 1100 |   |
| 2  | 20 | 3  | .91  | 490  |   | 2  | 20 | 7  | 2.52 | 1100 |   | 2  | 20 | 8  | 2.59 | 1100 |   |
| 1  | 20 | 5  | 1.71 | 735  |   | 1  | 20 | 13 | 4.23 | 1450 |   | 1  | 20 | 13 | 4.40 | 1450 |   |

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| СТОЯК-31 |    |    |      |       | СТОЯК-32 |    |    |      |       |
|----------|----|----|------|-------|----------|----|----|------|-------|
| ИН       | Д  | Ч  | С    | Р     | ИН       | Д  | Ч  | С    | Р     |
| ЭТ       | УЗ | СК | ПРИБ | ПРИБ. | ЭТ       | УЗ | СК | ПРИБ | ПРИБ. |
| 1        | 15 | -  | -    | -     | 1        | 20 | -  | -    | -     |
| 0        | 20 | -  | -    | -     | 0        | 15 | -  | -    | -     |
| 1        | 15 | 0  | .00  | 0     | 1        | 15 | 0  | .00  | 0     |
| 2        | 15 | 0  | .00  | 0     | 2        | 15 | 0  | .00  | 0     |
| 3        | 15 | 0  | .00  | 0     | 3        | 15 | 0  | .00  | 0     |
| 4        | 20 | 5  | 1.59 | 1100  | 4        | 15 | 0  | .00  | 0     |
| 5        | 20 | 5  | 1.70 | 1100  | 5        | 15 | 0  | .00  | 0     |
| 6        | 20 | 5  | 1.81 | 1100  | 6        | 15 | 0  | .00  | 0     |
| 7        | 20 | 6  | 1.93 | 1100  | 7        | 15 | 0  | .00  | 0     |
| 8        | 20 | 6  | 2.07 | 1100  | 8        | 15 | 0  | .00  | 0     |
| 9        | 20 | 11 | 3.80 | 1590  | 9        | 15 | 0  | .00  | 0     |
| 9        | 20 | 4  | 1.23 | 780   | 9        | 15 | 7  | 2.27 | 1520  |
| 8        | 20 | 2  | .50  | 425   | 8        | 15 | 4  | 1.28 | 960   |
| 7        | 20 | 2  | .55  | 430   | 7        | 15 | 4  | 1.40 | 960   |
| 6        | 20 | 2  | .60  | 440   | 6        | 15 | 5  | 1.53 | 960   |
| 5        | 20 | 2  | .66  | 450   | 5        | 15 | 5  | 1.70 | 960   |
| 4        | 20 | 2  | .72  | 460   | 4        | 15 | 6  | 1.86 | 960   |
| 3        | 20 | 2  | .80  | 475   | 3        | 15 | 6  | 2.08 | 960   |
| 2        | 20 | 3  | .89  | 490   | 2        | 15 | 7  | 2.31 | 960   |
| 1        | 20 | 5  | 1.68 | 735   | 1        | 15 | 13 | 4.38 | 1360  |

### КОМПЛЕКТОВОЧНАЯ ТАБЛИЦА

[illegible]

## СПЕЦИФИКАЦИЯ

ОТОПЛЕНИЕ (НИЖЕ ОТМЕТКИ 0,00)

| Поз | ОБОЗНАЧЕНИЕ   | НАИМЕНОВАНИЕ                  | КОЛ-ВО | МАССА (ПРИМ.) |
|-----|---------------|-------------------------------|--------|---------------|
|     |               |                               |        | ЕД. КГ        |
|     |               | ТРУБОПРОВОД ИЗ ЛЕГКИХ ВО-     |        |               |
|     |               | ДОГАЗОПРОВОДНЫХ ТРУБ ПО       |        |               |
|     |               | ГОСТ 3262-78:                 |        |               |
| 1   |               | Д15, М                        | 63     | 62            |
| 2   |               | Д20, М                        | 71     | 3             |
| 3   |               | Д25, М                        | 24     | 19            |
| 4   |               | Д32, М                        | 71     | 40            |
| 5   |               | Д40, М                        | 47     | 20            |
| 6   |               | Д50, М                        | 136    | 69            |
| 7   | ГОСТ 10704-76 | ТРУБА 76X2,8, М               | 25     | 12            |
| 8   | ГОСТ 10704-76 | ТРУБА 89X2,8, М               | 31     | 15            |
|     |               |                               |        |               |
|     | ГОСТ 18161-72 | ВЕНТИЛЬ ЗАПОРНЫЙ              |        |               |
|     |               | МУФТОВЫЙ 15КН18БР             |        |               |
| 9   |               | Д15                           | 27     | 0             |
| 10  |               | Д20                           | 2      | 0             |
| 11  |               | Д25                           | 3      | 0             |
|     |               |                               |        |               |
|     | ГОСТ 2704-77  | КРАН КОНУСНЫЙ ПРОХОДНОЙ       |        |               |
|     |               | САЛЬНИКОВЫЙ МУФТОВЫЙ          |        |               |
|     |               | 11Б6БК:                       |        |               |
| 12  |               | Д15                           | 1      | 0             |
| 13  |               | Д20                           | 30     | 0             |
| 14  |               | Д25                           | 1      | 0             |
|     |               |                               |        |               |
|     | ГОСТ 22595-77 | КРАН ПРОБНО-СПУСКНОЙ          |        |               |
|     |               | САЛЬНИКОВЫЙ ЛАТУННЫЙ          |        |               |
|     |               | 10Б19БК ИСП.3                 |        |               |
| 15  |               | Д15                           | 68     | 0             |
|     |               |                               |        |               |
|     | ГОСТ 8437-75  | ЗАДВИЖКА ПАРАЛЛЕЛЬНАЯ С       |        |               |
|     |               | ВЫДВИЖНЫМ ШПИНДЕЛЕМ           |        |               |
|     |               | ФЛАНЦЕВАЯ 3046БР ИСП.3        |        |               |
| 16  |               | Д80                           | 4      | 0             |
|     |               |                               |        |               |
|     | 903-04-13     | УЗЕЛ УПРАВЛЕНИЯ               |        |               |
| 17  |               | КОМПЛЕКТОВОЧНЫЙ               | 1      | 0             |
|     |               | ОТОПЛЕНИЕ (ВЫШЕ ОТМЕТКИ 0,00) |        |               |
|     |               |                               |        |               |
|     |               | ТРУБОПРОВОД ИЗ ЛЕГКИХ ВО-     |        |               |

| Поз | Обозначение | Наименование | Кол-во | Масса  | Прим |
|-----|-------------|--------------|--------|--------|------|
|     |             |              | шт     | ед. кг |      |

|  |  |                       |  |  |  |
|--|--|-----------------------|--|--|--|
|  |  | газопроводных труб по |  |  |  |
|  |  | ГОСТ 3262-78:         |  |  |  |

|    |  |        |      |  |    |
|----|--|--------|------|--|----|
| 18 |  | Д15, М | 743  |  | 11 |
| 19 |  | Д20, М | 1209 |  | 82 |
| 20 |  | Д25, М | 27   |  | 0  |

|    |               |                          |     |  |   |
|----|---------------|--------------------------|-----|--|---|
|    | ГОСТ 10944-75 | кран двойной регулировки |     |  |   |
| 21 | КДР           | Д15                      | 81  |  | 0 |
| 22 | КДР           | Д20                      | 278 |  | 0 |

|    |  |                          |    |  |   |
|----|--|--------------------------|----|--|---|
|    |  | регистр из водопроводных |    |  |   |
|    |  | труб по ГОСТ 3262-75     |    |  |   |
| 23 |  | Д20, М                   | 13 |  | 0 |

|    |              |                      |       |  |   |
|----|--------------|----------------------|-------|--|---|
|    |              | кран воздушоспускной |       |  |   |
| 24 | Т. МАЕВСКОГО |                      | 32    |  | 0 |
|    | ГОСТ 8690-75 | радиатор М140-А0     |       |  |   |
| 25 |              | ЭКМ                  | 677,2 |  |   |
| 26 |              | СЕК                  | 1935  |  |   |

|    |               |                       |   |  |  |
|----|---------------|-----------------------|---|--|--|
|    | ГОСТ 20849-75 | конвектор высокий     |   |  |  |
| 27 |               | с кожухом КВ20-12-900 | 3 |  |  |

УДЕЛЬНЫЙ РАСХОД МЕТАЛЛА 0,8-КГ/КВ.М

ПРИМЕЧАНИЕ: В ГРАФЕ "ПРИМ" УКАЗАНА ДЛИНА ИЗОЛИРОВАННЫХ ТРУБОПРОВОДОВ

## СИСТЕМА С ТРЕХХОДОВЫМИ КРАНАМИ

НАРУЖНАЯ ТЕМПЕРАТУРА -35

H НАС. ФАКТИЧ. = 1523,1

G СИСТЕМЫ = 357743

ТАБЛИЦА ДИАМЕТРОВ МАГИСТРАЛЬНЫХ УЧАСТКОВ,  
МАГИСТРАЛЕЙ И ГЛАВНОГО СТОЯКА

| № | № МАГИСТР. УЧАСТКА | ДИАМЕТР УЧАСТКА |
|---|--------------------|-----------------|
| 1 | 01                 | 32              |
| 1 | 02                 | 40              |
| 1 | 03                 | 40              |
| 1 | 04                 | 50              |
| 1 | 05                 | 50              |
| 1 | М1                 | 50              |
| 2 | 01                 | 32              |
| 2 | 02                 | 40              |
| 2 | 03                 | 50              |
| 2 | 04                 | 50              |
| 2 | 05                 | 50              |
| 2 | 06                 | 70              |
| 2 | М1                 | 70              |
| 3 | 01                 | 32              |
| 3 | 02                 | 32              |
| 3 | 03                 | 32              |
| 3 | 04                 | 40              |
| 3 | 05                 | 50              |
| 3 | 06                 | 50              |
| 3 | М2                 | 50              |
| 4 | 01                 | 32              |
| 4 | 02                 | 32              |
| 4 | 03                 | 40              |
| 4 | 04                 | 50              |
| 4 | 05                 | 50              |
| 4 | 06                 | 50              |
| 4 | 07                 | 50              |
| 4 | М2                 | 50              |
| - | МГ-1               | 70              |
| - | МО-1               | 70              |
| - | МГ-2               | 80              |
| - | МО-2               | 80              |
| - | ГЛ.С               | 80              |

17432-05

## ТАБЛИЦЫ РАСЧЕТА НАГРЕВАТЕЛЬНЫХ ПРИБОРОВ

## СТОЯК- 1

## СТОЯК- 2

## СТОЯК- 3

| IN | Д  | Ч  | С    | F     | Q | IN | Д  | Ч  | С    | F     | Q | IN | Д  | Ч       | С    | F     | Q |
|----|----|----|------|-------|---|----|----|----|------|-------|---|----|----|---------|------|-------|---|
| ЭТ | УЗ | СК | ПРИБ | ПРИБ. |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ. |   | ЭТ | УЗ | СК      | ПРИБ | ПРИБ. |   |
| Г  | 25 | -  | -    | -     |   | Г  | 15 | -  | -    | -     |   | Г  | 25 | -       | -    | -     |   |
| 0  | 25 | -  | -    | -     |   | 0  | 20 | -  | -    | -     |   | 0  | 20 | -       | -    | -     |   |
| 1  | 20 | 5  | 1.77 | 1085  |   | 1  | 20 | 6  | 1.98 | 1175  |   | 1  | 20 | КВ12    |      | 6580  |   |
| 2  | 20 | 4  | 1.41 | 869   |   | 2  | 20 | 5  | 1.62 | 940   |   | 2  | 20 | 4       | 1.32 | 700   |   |
| 3  | 20 | 4  | 1.46 | 869   |   | 3  | 20 | 5  | 1.71 | 940   |   | 3  | 20 | 4       | 1.38 | 700   |   |
| 4  | 20 | 4  | 1.52 | 869   |   | 4  | 20 | 5  | 1.82 | 940   |   | 4  | 20 | 4       | 1.44 | 700   |   |
| 5  | 20 | 5  | 1.58 | 869   |   | 5  | 20 | 6  | 1.93 | 940   |   | 5  | 20 | 4       | 1.50 | 700   |   |
| 6  | 20 | 5  | 1.65 | 869   |   | 6  | 20 | 6  | 2.06 | 940   |   | 6  | 20 | 5       | 1.57 | 700   |   |
| 7  | 20 | 5  | 1.72 | 869   |   | 7  | 20 | 6  | 2.19 | 940   |   | 7  | 20 | 5       | 1.65 | 700   |   |
| 8  | 20 | 5  | 1.80 | 869   |   | 8  | 20 | 7  | 2.32 | 940   |   | 8  | 20 | 5       | 1.74 | 700   |   |
| 9  | 20 | 8  | 2.59 | 1139  |   | 9  | 20 | 10 | 3.47 | 1240  |   | 9  | 20 | 12      | 4.09 | 1395  |   |
| 9  | 25 | 7  | 2.42 | 1240  |   | 9  | 20 | 4  | 1.37 | 730   |   | 9  | 20 | 0       | .00  | 0     |   |
| 8  | 25 | 5  | 1.84 | 940   |   | 8  | 20 | 2  | .46  | 340   |   | 8  | 20 | 0       | .00  | 0     |   |
| 7  | 25 | 6  | 1.96 | 940   |   | 7  | 20 | 2  | .49  | 340   |   | 7  | 20 | 0       | .00  | 0     |   |
| 6  | 25 | 6  | 2.09 | 940   |   | 6  | 20 | 2  | .54  | 350   |   | 6  | 20 | 0       | .00  | 0     |   |
| 5  | 25 | 7  | 2.22 | 940   |   | 5  | 20 | 2  | .57  | 350   |   | 5  | 20 | 0       | .00  | 0     |   |
| 4  | 25 | 7  | 2.39 | 940   |   | 4  | 20 | 2  | .63  | 360   |   | 4  | 20 | 0       | .00  | 0     |   |
| 3  | 25 | 8  | 2.56 | 940   |   | 3  | 20 | 2  | .69  | 370   |   | 3  | 20 | 0       | .00  | 0     |   |
| 2  | 25 | 8  | 2.77 | 940   |   | 2  | 20 | 2  | .75  | 380   |   | 2  | 20 | 0       | .00  | 0     |   |
| 1  | 25 | 11 | 3.86 | 1175  |   | 1  | 20 | 5  | 1.59 | 640   |   | 1  | 20 | РЕГИСТР |      | 800   |   |

## СТОЯК- 4

## СТОЯК- 5

## СТОЯК- 6

| IN | Д  | Ч  | С    | F     | Q | IN | Д  | Ч  | С    | F     | Q | IN | Д  | Ч  | С    | F     | Q |
|----|----|----|------|-------|---|----|----|----|------|-------|---|----|----|----|------|-------|---|
| ЭТ | УЗ | СК | ПРИБ | ПРИБ. |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ. |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ. |   |
| Г  | 15 | -  | -    | -     |   | Г  | 15 | -  | -    | -     |   | Г  | 15 | -  | -    | -     |   |
| 0  | 20 | -  | -    | -     |   | 0  | 20 | -  | -    | -     |   | 0  | 20 | -  | -    | -     |   |
| 1  | 15 | 0  | .00  | 0     |   | 1  | 15 | 5  | 1.78 | 1090  |   | 1  | 15 | 5  | 1.76 | 1090  |   |
| 2  | 15 | 0  | .00  | 0     |   | 2  | 15 | 3  | 1.16 | 730   |   | 2  | 15 | 3  | 1.16 | 730   |   |
| 3  | 15 | 0  | .00  | 0     |   | 3  | 20 | 3  | 1.15 | 730   |   | 3  | 20 | 3  | 1.15 | 730   |   |
| 4  | 15 | 0  | .00  | 0     |   | 4  | 20 | 4  | 1.21 | 730   |   | 4  | 20 | 4  | 1.20 | 730   |   |
| 5  | 15 | 0  | .00  | 0     |   | 5  | 20 | 4  | 1.27 | 730   |   | 5  | 20 | 4  | 1.26 | 730   |   |
| 6  | 15 | 0  | .00  | 0     |   | 6  | 20 | 4  | 1.34 | 730   |   | 6  | 20 | 4  | 1.33 | 730   |   |
| 7  | 15 | 0  | .00  | 0     |   | 7  | 20 | 4  | 1.41 | 730   |   | 7  | 20 | 4  | 1.40 | 730   |   |
| 8  | 15 | 0  | .00  | 0     |   | 8  | 20 | 4  | 1.48 | 730   |   | 8  | 20 | 4  | 1.47 | 730   |   |
| 9  | 15 | 0  | .00  | 0     |   | 9  | 20 | 9  | 3.02 | 1270  |   | 9  | 20 | 9  | 3.00 | 1270  |   |
| 9  | 15 | 7  | 2.25 | 1590  |   | 9  | 20 | 4  | 1.25 | 750   |   | 9  | 20 | 4  | 1.24 | 750   |   |
| 8  | 20 | 4  | 1.19 | 960   |   | 8  | 20 | 2  | .36  | 330   |   | 8  | 20 | 2  | .36  | 330   |   |
| 7  | 20 | 4  | 1.29 | 960   |   | 7  | 20 | 2  | .39  | 330   |   | 7  | 20 | 2  | .38  | 330   |   |
| 6  | 20 | 4  | 1.40 | 960   |   | 6  | 20 | 2  | .44  | 340   |   | 6  | 20 | 2  | .43  | 340   |   |
| 5  | 20 | 4  | 1.51 | 960   |   | 5  | 20 | 2  | .49  | 350   |   | 5  | 20 | 2  | .49  | 350   |   |
| 4  | 20 | 5  | 1.62 | 960   |   | 4  | 20 | 2  | .52  | 350   |   | 4  | 20 | 2  | .51  | 350   |   |
| 3  | 20 | 5  | 1.77 | 960   |   | 3  | 20 | 2  | .57  | 360   |   | 3  | 20 | 2  | .57  | 360   |   |
| 2  | 20 | 6  | 1.93 | 960   |   | 2  | 20 | 2  | .63  | 370   |   | 2  | 20 | 2  | .62  | 370   |   |
| 1  | 20 | 11 | 3.76 | 1450  |   | 1  | 20 | 4  | 1.48 | 650   |   | 1  | 20 | 4  | 1.46 | 650   |   |

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## СТОЯК- 7

## СТОЯК- 8

## СТОЯК- 9

| IN | Д  | Ч  | С    | Р    | П | IN | Д  | Ч  | С    | Р    | П | IN | Д  | Ч  | С    | Р    | П |
|----|----|----|------|------|---|----|----|----|------|------|---|----|----|----|------|------|---|
| ЭТ | УЗ | СК | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   |
| Г  | 15 | -  | -    | -    |   | Г  | 15 | -  | -    | -    |   | Г  | 15 | -  | -    | -    |   |
| О  | 20 | -  | -    | -    |   | О  | 20 | -  | -    | -    |   | О  | 20 | -  | -    | -    |   |
| 1  | 15 | 0  | .00  | 0    |   | 1  | 20 | 5  | 1.76 | 1090 |   | 1  | 15 | 0  | .00  | 0    |   |
| 2  | 15 | 0  | .00  | 0    |   | 2  | 20 | 3  | 1.14 | 730  |   | 2  | 15 | 0  | .00  | 0    |   |
| 3  | 15 | 0  | .00  | 0    |   | 3  | 20 | 4  | 1.19 | 730  |   | 3  | 15 | 0  | .00  | 0    |   |
| 4  | 15 | 0  | .00  | 0    |   | 4  | 20 | 4  | 1.26 | 730  |   | 4  | 15 | 0  | .00  | 0    |   |
| 5  | 15 | 0  | .00  | 0    |   | 5  | 20 | 4  | 1.33 | 730  |   | 5  | 15 | 0  | .00  | 0    |   |
| 6  | 15 | 0  | .00  | 0    |   | 6  | 20 | 4  | 1.39 | 730  |   | 6  | 15 | 0  | .00  | 0    |   |
| 7  | 15 | 0  | .00  | 0    |   | 7  | 20 | 4  | 1.47 | 730  |   | 7  | 15 | 0  | .00  | 0    |   |
| 8  | 15 | 0  | .00  | 0    |   | 8  | 20 | 5  | 1.55 | 730  |   | 8  | 15 | 0  | .00  | 0    |   |
| 9  | 15 | 0  | .00  | 0    |   | 9  | 20 | 9  | 3.19 | 1270 |   | 9  | 15 | 0  | .00  | 0    |   |
| 9  | 15 | 7  | 2.22 | 1590 |   | 9  | 20 | 4  | 1.32 | 750  |   | 9  | 15 | 7  | 2.29 | 1590 |   |
| 8  | 15 | 4  | 1.24 | 960  |   | 8  | 20 | 2  | .40  | 330  |   | 8  | 15 | 4  | 1.28 | 960  |   |
| 7  | 20 | 4  | 1.27 | 960  |   | 7  | 20 | 2  | .42  | 330  |   | 7  | 20 | 4  | 1.31 | 960  |   |
| 6  | 20 | 4  | 1.38 | 960  |   | 6  | 20 | 2  | .47  | 340  |   | 6  | 20 | 4  | 1.42 | 960  |   |
| 5  | 20 | 4  | 1.50 | 960  |   | 5  | 20 | 2  | .53  | 350  |   | 5  | 20 | 5  | 1.53 | 960  |   |
| 4  | 20 | 5  | 1.61 | 960  |   | 4  | 20 | 2  | .56  | 350  |   | 4  | 20 | 5  | 1.68 | 960  |   |
| 3  | 20 | 5  | 1.76 | 960  |   | 3  | 20 | 2  | .62  | 360  |   | 3  | 20 | 5  | 1.84 | 960  |   |
| 2  | 20 | 6  | 1.92 | 960  |   | 2  | 20 | 2  | .68  | 370  |   | 2  | 20 | 6  | 2.00 | 960  |   |
| 1  | 20 | 10 | 3.43 | 1350 |   | 1  | 20 | 5  | 1.57 | 650  |   | 1  | 20 | 12 | 3.91 | 1450 |   |

## СТОЯК-10

## СТОЯК-11

## СТОЯК-12

| IN | Д  | Ч       | С    | Р    | Q | IN | Д  | Ч  | С    | Р    | Q | IN | Д  | Ч  | С    | Р    | Q    |
|----|----|---------|------|------|---|----|----|----|------|------|---|----|----|----|------|------|------|
| ЭТ | УЗ | СК      | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |      |
| Г  | 20 | -       | -    | -    |   | Г  | 15 | -  | -    | -    |   | Г  | 15 | -  | -    | -    |      |
| О  | 20 | -       | -    | -    |   | О  | 20 | -  | -    | -    |   | О  | 20 | -  | -    | -    |      |
| 1  | 20 | KB12    |      | 6580 |   | 1  | 15 | 0  | .00  |      | 0 | 1  | 15 | 5  | 1.80 |      | 1090 |
| 2  | 20 | 4       | 1.32 | 700  |   | 2  | 15 | 0  | .00  |      | 0 | 2  | 15 | 3  | 1.18 |      | 730  |
| 3  | 20 | 4       | 1.37 | 700  |   | 3  | 15 | 0  | .00  |      | 0 | 3  | 15 | 4  | 1.22 |      | 730  |
| 4  | 20 | 4       | 1.43 | 700  |   | 4  | 15 | 0  | .00  |      | 0 | 4  | 20 | 4  | 1.24 |      | 730  |
| 5  | 20 | 4       | 1.50 | 700  |   | 5  | 15 | 0  | .00  |      | 0 | 5  | 20 | 4  | 1.30 |      | 730  |
| 6  | 20 | 5       | 1.56 | 700  |   | 6  | 15 | 0  | .00  |      | 0 | 6  | 20 | 4  | 1.37 |      | 730  |
| 7  | 20 | 5       | 1.64 | 700  |   | 7  | 15 | 0  | .00  |      | 0 | 7  | 20 | 4  | 1.45 |      | 730  |
| 8  | 20 | 5       | 1.72 | 700  |   | 8  | 15 | 0  | .00  |      | 0 | 8  | 20 | 6  | 1.52 |      | 730  |
| 9  | 20 | 12      | 4.04 | 1395 |   | 9  | 15 | 0  | .00  |      | 0 | 9  | 20 | 9  | 3.10 |      | 1270 |
| 9  | 20 | 0       | .00  | 0    |   | 9  | 15 | 7  | 2.28 | 1590 |   | 9  | 20 | 4  | 1.28 |      | 750  |
| 8  | 20 | 0       | .00  | 0    |   | 8  | 15 | 4  | 1.28 | 960  |   | 8  | 20 | 2  | .38  |      | 330  |
| 7  | 20 | 0       | .00  | 0    |   | 7  | 15 | 4  | 1.38 | 960  |   | 7  | 20 | 2  | .41  |      | 330  |
| 6  | 20 | 0       | .00  | 0    |   | 6  | 20 | 4  | 1.42 | 960  |   | 6  | 20 | 2  | .46  |      | 340  |
| 5  | 20 | 0       | .00  | 0    |   | 5  | 20 | 5  | 1.54 | 960  |   | 5  | 20 | 2  | .51  |      | 350  |
| 4  | 20 | 0       | .00  | 0    |   | 4  | 20 | 5  | 1.69 | 960  |   | 4  | 20 | 2  | .54  |      | 350  |
| 3  | 20 | 0       | .00  | 0    |   | 3  | 20 | 5  | 1.84 | 960  |   | 3  | 20 | 2  | .60  |      | 360  |
| 2  | 20 | 0       | .00  | 0    |   | 2  | 20 | 6  | 2.00 | 960  |   | 2  | 20 | 2  | .66  |      | 370  |
| 1  | 20 | РЕГИСТР |      | 800  |   | 1  | 20 | 11 | 3.56 | 1350 |   | 1  | 20 | 4  | 1.52 |      | 650  |

## СТОЯК-13

## СТОЯК-14

## СТОЯК-15

| IN | Д  | Ч  | С    | Р    | Q | IN | Д  | Ч  | С    | Р    | Q | IN | Д  | Ч       | С    | Р    | Q |
|----|----|----|------|------|---|----|----|----|------|------|---|----|----|---------|------|------|---|
| ЭТ | УЗ | СК | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК      | ПРИБ | ПРИБ |   |
| Г  | 15 | -  | -    | -    |   | Г  | 15 | -  | -    | -    |   | Г  | 15 | -       | -    | -    |   |
| О  | 20 | -  | -    | -    |   | О  | 20 | -  | -    | -    |   | О  | 20 | -       | -    | -    |   |
| 1  | 15 | 5  | 1,78 | 1090 |   | 1  | 15 | 0  | ,00  | 0    |   | 1  | 20 | К812    |      | 6580 |   |
| 2  | 15 | 3  | 1,17 | 730  |   | 2  | 15 | 0  | ,00  | 0    |   | 2  | 20 | 4       | 1,32 | 700  |   |
| 3  | 15 | 4  | 1,22 | 730  |   | 3  | 15 | 0  | ,00  | 0    |   | 3  | 20 | 4       | 1,39 | 700  |   |
| 4  | 20 | 4  | 1,22 | 730  |   | 4  | 15 | 0  | ,00  | 0    |   | 4  | 20 | 4       | 1,46 | 700  |   |
| 5  | 20 | 4  | 1,29 | 730  |   | 5  | 15 | 0  | ,00  | 0    |   | 5  | 20 | 4       | 1,52 | 700  |   |
| 6  | 20 | 4  | 1,36 | 730  |   | 6  | 15 | 0  | ,00  | 0    |   | 6  | 20 | 5       | 1,60 | 700  |   |
| 7  | 20 | 4  | 1,43 | 730  |   | 7  | 15 | 0  | ,00  | 0    |   | 7  | 20 | 5       | 1,68 | 700  |   |
| 8  | 20 | 4  | 1,51 | 730  |   | 8  | 15 | 0  | ,00  | 0    |   | 8  | 20 | 5       | 1,78 | 700  |   |
| 9  | 20 | 9  | 3,08 | 1270 |   | 9  | 15 | 0  | ,00  | 0    |   | 9  | 20 | 13      | 4,23 | 1395 |   |
| 9  | 20 | 4  | 1,27 | 750  |   | 9  | 15 | 7  | 2,23 | 1590 |   | 9  | 20 | 0       | ,00  | 0    |   |
| 8  | 20 | 2  | ,38  | 330  |   | 8  | 15 | 4  | 1,24 | 960  |   | 8  | 20 | 0       | ,00  | 0    |   |
| 7  | 20 | 2  | ,40  | 330  |   | 7  | 15 | 4  | 1,34 | 960  |   | 7  | 20 | 0       | ,00  | 0    |   |
| 6  | 20 | 2  | ,45  | 340  |   | 6  | 20 | 4  | 1,38 | 960  |   | 6  | 20 | 0       | ,00  | 0    |   |
| 5  | 20 | 2  | ,50  | 350  |   | 5  | 20 | 4  | 1,49 | 960  |   | 5  | 20 | 0       | ,00  | 0    |   |
| 4  | 20 | 2  | ,53  | 350  |   | 4  | 20 | 5  | 1,61 | 960  |   | 4  | 20 | 0       | ,00  | 0    |   |
| 3  | 20 | 2  | ,59  | 360  |   | 3  | 20 | 5  | 1,75 | 960  |   | 3  | 20 | 0       | ,00  | 0    |   |
| 2  | 20 | 2  | ,65  | 370  |   | 2  | 20 | 6  | 1,91 | 960  |   | 2  | 20 | 0       | ,00  | 0    |   |
| 1  | 20 | 4  | 1,51 | 650  |   | 1  | 20 | 11 | 3,74 | 1450 |   | 1  | 20 | РЕГИСТР |      | 800  |   |

## СТОЯК-16

## СТОЯК-17

## СТОЯК-18

| IN | Д  | Ч  | С    | Р    | Q | IN | Д  | Ч  | С    | Р    | Q | IN | Д  | Ч  | С    | Р    | Q |
|----|----|----|------|------|---|----|----|----|------|------|---|----|----|----|------|------|---|
| ЭТ | УЗ | СК | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   |
| Г  | 25 | -  | -    | -    |   | Г  | 15 | -  | -    | -    |   | Г  | 15 | -  | -    | -    |   |
| О  | 20 | -  | -    | -    |   | О  | 20 | -  | -    | -    |   | О  | 20 | -  | -    | -    |   |
| 1  | 20 | 4  | 1,25 | 840  |   | 1  | 15 | 0  | ,00  | 0    |   | 1  | 15 | 0  | ,00  | 0    |   |
| 2  | 20 | 3  | ,85  | 610  |   | 2  | 15 | 0  | ,00  | 0    |   | 2  | 15 | 0  | ,00  | 0    |   |
| 3  | 20 | 3  | ,89  | 610  |   | 3  | 15 | 0  | ,00  | 0    |   | 3  | 15 | 0  | ,00  | 0    |   |
| 4  | 20 | 3  | ,94  | 610  |   | 4  | 15 | 0  | ,00  | 0    |   | 4  | 15 | 0  | ,00  | 0    |   |
| 5  | 20 | 3  | ,98  | 610  |   | 5  | 15 | 0  | ,00  | 0    |   | 5  | 15 | 0  | ,00  | 0    |   |
| 6  | 20 | 3  | 1,02 | 610  |   | 6  | 15 | 0  | ,00  | 0    |   | 6  | 15 | 0  | ,00  | 0    |   |
| 7  | 20 | 3  | 1,07 | 610  |   | 7  | 15 | 0  | ,00  | 0    |   | 7  | 15 | 0  | ,00  | 0    |   |
| 8  | 20 | 3  | 1,12 | 610  |   | 8  | 15 | 0  | ,00  | 0    |   | 8  | 15 | 0  | ,00  | 0    |   |
| 9  | 20 | 6  | 2,01 | 940  |   | 9  | 15 | 0  | ,00  | 0    |   | 9  | 15 | 0  | ,00  | 0    |   |
| 9  | 20 | 5  | 1,81 | 932  |   | 9  | 15 | 7  | 2,22 | 1520 |   | 9  | 15 | 7  | 2,20 | 1520 |   |
| 8  | 20 | 4  | 1,37 | 711  |   | 8  | 20 | 4  | 1,26 | 960  |   | 8  | 20 | 4  | 1,25 | 960  |   |
| 7  | 20 | 4  | 1,46 | 711  |   | 7  | 20 | 4  | 1,38 | 960  |   | 7  | 20 | 4  | 1,37 | 960  |   |
| 6  | 20 | 5  | 1,56 | 711  |   | 6  | 20 | 4  | 1,50 | 960  |   | 6  | 20 | 4  | 1,48 | 960  |   |
| 5  | 20 | 5  | 1,68 | 711  |   | 5  | 20 | 5  | 1,62 | 960  |   | 5  | 20 | 5  | 1,60 | 960  |   |
| 4  | 20 | 5  | 1,80 | 711  |   | 4  | 20 | 5  | 1,78 | 960  |   | 4  | 20 | 5  | 1,76 | 960  |   |
| 3  | 20 | 6  | 1,92 | 711  |   | 3  | 20 | 6  | 1,95 | 960  |   | 3  | 20 | 6  | 1,93 | 960  |   |
| 2  | 20 | 6  | 2,08 | 711  |   | 2  | 20 | 6  | 2,16 | 960  |   | 2  | 20 | 6  | 2,14 | 960  |   |
| 1  | 20 | 9  | 2,93 | 887  |   | 1  | 20 | 12 | 3,89 | 1360 |   | 1  | 20 | 11 | 3,85 | 1360 |   |

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| СТОЯК-19            |   |    |    |      | СТОЯК-20            |   |    |    |      | СТОЯК-21            |   |    |    |      |
|---------------------|---|----|----|------|---------------------|---|----|----|------|---------------------|---|----|----|------|
| IN                  | А | Ч  | Р  | Q    | IN                  | А | Ч  | Р  | Q    | IN                  | А | Ч  | Р  | Q    |
| ЭТ УЗ СК ПРИБ ПРИБ. |   |    |    |      | ЭТ УЗ СК ПРИБ ПРИБ. |   |    |    |      | ЭТ УЗ СК ПРИБ ПРИБ. |   |    |    |      |
| 1                   | Г | 15 | -  | -    | 1                   | Г | 15 | -  | -    | 1                   | Г | 15 | -  | -    |
| 1                   | О | 20 | -  | -    | 1                   | О | 20 | -  | -    | 1                   | О | 20 | -  | -    |
| 1                   | 1 | 15 | 0  | .00  | 1                   | 1 | 15 | 4  | 1.51 | 1                   | 1 | 15 | 4  | 1.50 |
| 1                   | 2 | 20 | 0  | .00  | 1                   | 2 | 15 | 3  | 1.13 | 1                   | 2 | 15 | 3  | 1.12 |
| 1                   | 3 | 20 | 0  | .00  | 1                   | 3 | 15 | 3  | 1.18 | 1                   | 3 | 15 | 3  | 1.17 |
| 1                   | 4 | 20 | 5  | 1.62 | 1                   | 4 | 15 | 4  | 1.24 | 1                   | 4 | 15 | 4  | 1.23 |
| 1                   | 5 | 20 | 5  | 1.71 | 1                   | 5 | 15 | 4  | 1.31 | 1                   | 5 | 15 | 4  | 1.29 |
| 1                   | 6 | 20 | 5  | 1.81 | 1                   | 6 | 20 | 4  | 1.32 | 1                   | 6 | 20 | 4  | 1.31 |
| 1                   | 7 | 20 | 6  | 1.91 | 1                   | 7 | 20 | 4  | 1.41 | 1                   | 7 | 20 | 4  | 1.39 |
| 1                   | 8 | 20 | 6  | 2.04 | 1                   | 8 | 20 | 4  | 1.49 | 1                   | 8 | 20 | 4  | 1.47 |
| 1                   | 9 | 20 | 10 | 3.54 | 1                   | 9 | 20 | 7  | 2.51 | 1                   | 9 | 20 | 7  | 2.46 |
| 1                   | 9 | 20 | 4  | 1.30 | 1                   | 9 | 20 | 0  | .00  | 1                   | 9 | 20 | 0  | .00  |
| 1                   | 8 | 20 | 2  | .57  | 1                   | 8 | 20 | 0  | .00  | 1                   | 8 | 20 | 0  | .00  |
| 1                   | 7 | 20 | 2  | .62  | 1                   | 7 | 20 | 0  | .00  | 1                   | 7 | 20 | 0  | .00  |
| 1                   | 6 | 20 | 2  | .67  | 1                   | 6 | 20 | 0  | .00  | 1                   | 6 | 20 | 0  | .00  |
| 1                   | 5 | 20 | 2  | .73  | 1                   | 5 | 20 | 0  | .00  | 1                   | 5 | 20 | 0  | .00  |
| 1                   | 4 | 20 | 2  | .79  | 1                   | 4 | 20 | 0  | .00  | 1                   | 4 | 20 | 0  | .00  |
| 1                   | 3 | 20 | 3  | .87  | 1                   | 3 | 20 | 6  | 2.12 | 1                   | 3 | 20 | 6  | 2.17 |
| 1                   | 2 | 20 | 3  | .96  | 1                   | 2 | 20 | 7  | 2.32 | 1                   | 2 | 20 | 7  | 2.38 |
| 1                   | 1 | 20 | 5  | 1.73 | 1                   | 1 | 20 | 12 | 3.93 | 1                   | 1 | 20 | 11 | 3.85 |

| СТОЯК-22 |    |    |      |      |      | СТОЯК-23 |    |    |      |      |      | СТОЯК-24 |    |    |      |      |      |
|----------|----|----|------|------|------|----------|----|----|------|------|------|----------|----|----|------|------|------|
| IN       | Д  | Ч  | С    | Р    | Q    | IN       | Д  | Ч  | С    | Р    | Q    | IN       | Д  | Ч  | С    | Р    | Q    |
| ЭТ       | УЗ | СК | ПРИБ | ПРИБ |      | ЭТ       | УЗ | СК | ПРИБ | ПРИБ |      | ЭТ       | УЗ | СК | ПРИБ | ПРИБ |      |
| 1        | Г  | 15 | -    | -    | -    | 1        | Г  | 15 | -    | -    | -    | 1        | Г  | 15 | -    | -    | -    |
| 1        | 0  | 20 | -    | -    | -    | 1        | 0  | 20 | -    | -    | -    | 1        | 0  | 20 | -    | -    | -    |
| 1        | 1  | 15 | 0    | .00  | 0    | 1        | 1  | 15 | 0    | .00  | 0    | 1        | 1  | 15 | 5    | 1.54 | 930  |
| 1        | 2  | 15 | 0    | .00  | 0    | 1        | 2  | 15 | 0    | .00  | 0    | 1        | 2  | 20 | 3    | 1.11 | 700  |
| 1        | 3  | 15 | 0    | .00  | 0    | 1        | 3  | 15 | 0    | .00  | 0    | 1        | 3  | 20 | 3    | 1.17 | 700  |
| 1        | 4  | 20 | 5    | 1.57 | 1100 | 1        | 4  | 15 | 0    | .00  | 0    | 1        | 4  | 20 | 4    | 1.23 | 700  |
| 1        | 5  | 20 | 5    | 1.67 | 1100 | 1        | 5  | 15 | 0    | .00  | 0    | 1        | 5  | 20 | 4    | 1.30 | 700  |
| 1        | 6  | 20 | 5    | 1.77 | 1100 | 1        | 6  | 15 | 0    | .00  | 0    | 1        | 6  | 20 | 4    | 1.38 | 700  |
| 1        | 7  | 20 | 6    | 1.87 | 1100 | 1        | 7  | 15 | 0    | .00  | 0    | 1        | 7  | 20 | 4    | 1.46 | 700  |
| 1        | 8  | 20 | 6    | 2.00 | 1100 | 1        | 8  | 15 | 0    | .00  | 0    | 1        | 8  | 20 | 5    | 1.55 | 700  |
| 1        | 9  | 20 | 10   | 3.45 | 1590 | 1        | 9  | 15 | 0    | .00  | 0    | 1        | 9  | 20 | 8    | 2.64 | 1030 |
| 1        | 9  | 20 | 4    | 1.27 | 780  | 1        | 9  | 15 | 6    | 2.15 | 1520 | 1        | 9  | 20 | 0    | .00  | 0    |
| 1        | 8  | 20 | 2    | .56  | 425  | 1        | 8  | 15 | 4    | 1.26 | 960  | 1        | 8  | 20 | 0    | .00  | 0    |
| 1        | 7  | 20 | 2    | .60  | 430  | 1        | 7  | 15 | 4    | 1.36 | 960  | 1        | 7  | 20 | 0    | .00  | 0    |
| 1        | 6  | 20 | 2    | .65  | 440  | 1        | 6  | 15 | 4    | 1.47 | 960  | 1        | 6  | 20 | 0    | .00  | 0    |
| 1        | 5  | 20 | 2    | .71  | 450  | 1        | 5  | 20 | 4    | 1.51 | 960  | 1        | 5  | 20 | 0    | .00  | 0    |
| 1        | 4  | 20 | 2    | .76  | 460  | 1        | 4  | 20 | 5    | 1.63 | 960  | 1        | 4  | 20 | 0    | .00  | 0    |
| 1        | 3  | 20 | 2    | .84  | 475  | 1        | 3  | 20 | 5    | 1.79 | 960  | 1        | 3  | 20 | 6    | 2.19 | 1100 |
| 1        | 2  | 20 | 3    | .92  | 490  | 1        | 2  | 20 | 6    | 1.95 | 960  | 1        | 2  | 20 | 7    | 2.39 | 1100 |
| 1        | 1  | 20 | 5    | 1.67 | 735  | 1        | 1  | 20 | 10   | 3.54 | 1360 | 1        | 1  | 20 | 12   | 3.90 | 1410 |

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## СТОЯК-25

## СТОЯК-26

## СТОЯК-27

| IN | Д  | Ч  | С    | Р    | Q | IN | Д  | Ч  | С    | Р    | Q | IN | Д  | Ч  | С    | Р    | Q |
|----|----|----|------|------|---|----|----|----|------|------|---|----|----|----|------|------|---|
| ЭТ | УЗ | СК | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   |
| Г  | 15 | -  | -    | -    |   | Г  | 15 | -  | -    | -    |   | Г  | 15 | -  | -    | -    |   |
| 0  | 20 | -  | -    | -    |   | 0  | 20 | -  | -    | -    |   | 0  | 20 | -  | -    | -    |   |
| 1  | 15 | 0  | .00  | 0    |   | 1  | 15 | 0  | .00  | 0    |   | 1  | 15 | 0  | .00  | 0    |   |
| 2  | 20 | 0  | .00  | 0    |   | 2  | 15 | 0  | .00  | 0    |   | 2  | 15 | 0  | .00  | 0    |   |
| 3  | 20 | 0  | .00  | 0    |   | 3  | 15 | 0  | .00  | 0    |   | 3  | 15 | 0  | .00  | 0    |   |
| 4  | 20 | 5  | 1.64 | 1100 |   | 4  | 15 | 0  | .00  | 0    |   | 4  | 15 | 0  | .00  | 0    |   |
| 5  | 20 | 5  | 1.74 | 1100 |   | 5  | 15 | 0  | .00  | 0    |   | 5  | 15 | 0  | .00  | 0    |   |
| 6  | 20 | 5  | 1.85 | 1100 |   | 6  | 15 | 0  | .00  | 0    |   | 6  | 15 | 0  | .00  | 0    |   |
| 7  | 20 | 6  | 1.95 | 1100 |   | 7  | 15 | 0  | .00  | 0    |   | 7  | 15 | 0  | .00  | 0    |   |
| 8  | 20 | 6  | 2.09 | 1100 |   | 8  | 15 | 0  | .00  | 0    |   | 8  | 15 | 0  | .00  | 0    |   |
| 9  | 20 | 11 | 3.61 | 1590 |   | 9  | 15 | 0  | .00  | 0    |   | 9  | 15 | 0  | .00  | 0    |   |
| 9  | 20 | 4  | 1.33 | 780  |   | 9  | 15 | 6  | 2.08 | 1520 |   | 9  | 15 | 7  | 2.21 | 1520 |   |
| 8  | 20 | 2  | .59  | 425  |   | 8  | 20 | 3  | 1.16 | 960  |   | 8  | 15 | 4  | 1.33 | 960  |   |
| 7  | 20 | 2  | .64  | 430  |   | 7  | 20 | 4  | 1.25 | 960  |   | 7  | 20 | 4  | 1.37 | 960  |   |
| 6  | 20 | 2  | .69  | 440  |   | 6  | 20 | 4  | 1.37 | 960  |   | 6  | 20 | 4  | 1.49 | 960  |   |
| 5  | 20 | 2  | .75  | 450  |   | 5  | 20 | 4  | 1.50 | 960  |   | 5  | 20 | 5  | 1.60 | 960  |   |
| 4  | 20 | 2  | .81  | 460  |   | 4  | 20 | 5  | 1.64 | 960  |   | 4  | 20 | 5  | 1.76 | 960  |   |
| 3  | 20 | 3  | .89  | 475  |   | 3  | 20 | 5  | 1.81 | 960  |   | 3  | 20 | 6  | 1.93 | 960  |   |
| 2  | 20 | 3  | .99  | 490  |   | 2  | 20 | 8  | 2.61 | 1060 |   | 2  | 20 | 6  | 2.15 | 960  |   |
| 1  | 20 | 6  | 1.89 | 775  |   | 1  | 20 | 4  | 1.51 | 750  |   | 1  | 20 | 13 | 4.24 | 1460 |   |

## СТОЯК-28

## СТОЯК-29

## СТОЯК-30

| IN | Д  | Ч  | С    | Р    | Q | IN | Д  | Ч  | С    | Р    | Q | IN | Д  | Ч  | С    | Р    | Q |
|----|----|----|------|------|---|----|----|----|------|------|---|----|----|----|------|------|---|
| ЭТ | УЗ | СК | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   | ЭТ | УЗ | СК | ПРИБ | ПРИБ |   |
| Г  | 15 | -  | -    | -    |   | Г  | 15 | -  | -    | -    |   | Г  | 15 | -  | -    | -    |   |
| 0  | 20 | -  | -    | -    |   | 0  | 20 | -  | -    | -    |   | 0  | 20 | -  | -    | -    |   |
| 1  | 15 | 0  | .00  | 0    |   | 1  | 15 | 4  | 1.51 | 930  |   | 1  | 15 | 4  | 1.51 | 930  |   |
| 2  | 15 | 0  | .00  | 0    |   | 2  | 15 | 3  | 1.13 | 700  |   | 2  | 15 | 3  | 1.13 | 700  |   |
| 3  | 20 | 0  | .00  | 0    |   | 3  | 15 | 3  | 1.18 | 700  |   | 3  | 15 | 3  | 1.18 | 700  |   |
| 4  | 20 | 5  | 1.62 | 1100 |   | 4  | 15 | 4  | 1.24 | 700  |   | 4  | 15 | 4  | 1.23 | 700  |   |
| 5  | 20 | 5  | 1.71 | 1100 |   | 5  | 15 | 4  | 1.31 | 700  |   | 5  | 15 | 4  | 1.30 | 700  |   |
| 6  | 20 | 5  | 1.81 | 1100 |   | 6  | 20 | 4  | 1.33 | 700  |   | 6  | 20 | 4  | 1.32 | 700  |   |
| 7  | 20 | 6  | 1.91 | 1100 |   | 7  | 20 | 4  | 1.41 | 700  |   | 7  | 20 | 4  | 1.40 | 700  |   |
| 8  | 20 | 6  | 2.04 | 1100 |   | 8  | 20 | 4  | 1.50 | 700  |   | 8  | 20 | 4  | 1.48 | 700  |   |
| 9  | 20 | 10 | 3.54 | 1590 |   | 9  | 20 | 7  | 2.53 | 1030 |   | 9  | 20 | 7  | 2.49 | 1030 |   |
| 9  | 20 | 4  | 1.30 | 780  |   | 9  | 20 | 0  | .00  | 0    |   | 9  | 20 | 0  | .00  | 0    |   |
| 8  | 20 | 2  | .57  | 425  |   | 8  | 20 | 0  | .00  | 0    |   | 8  | 20 | 0  | .00  | 0    |   |
| 7  | 20 | 2  | .62  | 430  |   | 7  | 20 | 0  | .00  | 0    |   | 7  | 20 | 0  | .00  | 0    |   |
| 6  | 20 | 2  | .67  | 440  |   | 6  | 20 | 0  | .00  | 0    |   | 6  | 20 | 0  | .00  | 0    |   |
| 5  | 20 | 2  | .73  | 450  |   | 5  | 20 | 0  | .00  | 0    |   | 5  | 20 | 0  | .00  | 0    |   |
| 4  | 20 | 2  | .79  | 460  |   | 4  | 20 | 0  | .00  | 0    |   | 4  | 20 | 0  | .00  | 0    |   |
| 3  | 20 | 3  | .87  | 475  |   | 3  | 20 | 6  | 2.13 | 1100 |   | 3  | 20 | 7  | 2.20 | 1100 |   |
| 2  | 20 | 3  | .96  | 490  |   | 2  | 20 | 7  | 2.44 | 1100 |   | 2  | 20 | 7  | 2.42 | 1100 |   |
| 1  | 20 | 5  | 1.73 | 735  |   | 1  | 20 | 12 | 3.95 | 1450 |   | 1  | 20 | 12 | 3.95 | 1450 |   |

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CTOAK-31

## СТОЯК-32

| ИН | Д  | Ч  | С    | Р    | В    | ИН | Д  | Ч  | С    | Р    | В    |
|----|----|----|------|------|------|----|----|----|------|------|------|
| ЭТ | УЗ | СК | ПРИБ | ПРИБ |      | ЭТ | УЗ | СК | ПРИБ | ПРИБ |      |
| 1  | Г  | 15 | -    | -    | -    | 1  | Г  | 15 | -    | -    | -    |
| 1  | О  | 20 | -    | -    | -    | 1  | О  | 20 | -    | -    | -    |
| 1  | 1  | 15 | 0    | .00  | 0    | 1  | 1  | 15 | 0    | .00  | 0    |
| 1  | 2  | 15 | 0    | .00  | 0    | 1  | 2  | 15 | 0    | .00  | 0    |
| 1  | 3  | 15 | 0    | .00  | 0    | 1  | 3  | 15 | 0    | .00  | 0    |
| 1  | 4  | 20 | 5    | 1.58 | 1100 | 1  | 4  | 15 | 0    | .00  | 0    |
| 1  | 5  | 20 | 5    | 1.68 | 1100 | 1  | 5  | 15 | 0    | .00  | 0    |
| 1  | 6  | 20 | 5    | 1.78 | 1100 | 1  | 6  | 15 | 0    | .00  | 0    |
| 1  | 7  | 20 | 6    | 1.88 | 1100 | 1  | 7  | 15 | 0    | .00  | 0    |
| 1  | 8  | 20 | 6    | 2.01 | 1100 | 1  | 8  | 15 | 0    | .00  | 0    |
| 1  | 9  | 20 | 10   | 3.47 | 1590 | 1  | 9  | 15 | 0    | .00  | 0    |
| 1  | 9  | 20 | 4    | 1.27 | 780  | 1  | 9  | 15 | 6    | 2.16 | 1520 |
| 1  | 8  | 20 | 2    | .56  | 425  | 1  | 8  | 15 | 4    | 1.27 | 960  |
| 1  | 7  | 20 | 2    | .60  | 430  | 1  | 7  | 15 | 4    | 1.37 | 960  |
| 1  | 6  | 20 | 2    | .65  | 440  | 1  | 6  | 15 | 4    | 1.48 | 960  |
| 1  | 5  | 20 | 2    | .71  | 450  | 1  | 5  | 20 | 5    | 1.53 | 960  |
| 1  | 4  | 20 | 2    | .77  | 460  | 1  | 4  | 20 | 5    | 1.68 | 960  |
| 1  | 3  | 20 | 3    | .85  | 475  | 1  | 3  | 20 | 5    | 1.84 | 960  |
| 1  | 2  | 20 | 3    | .94  | 490  | 1  | 2  | 20 | 6    | 2.01 | 960  |
| 1  | 1  | 20 | 5    | 1.70 | 735  | 1  | 1  | 20 | 11   | 3.62 | 1360 |

### КОМПЛЕКТОВАЧНАЯ ТАБЛИЦА

[illegible]

## СПЕЦИФИКАЦИЯ

СТОПЛЕНИЕ (НАНЕ ОТМЕТКА 0.00)

| НА<br>ПОЗ | ОБОЗНАЧЕНИЕ   | НАИМЕНОВАНИЕ                  | КОЛ-<br>ВО | МАССА<br>ЕД. КГ | ПРИМ |
|-----------|---------------|-------------------------------|------------|-----------------|------|
|           |               | ТРУБОПРОВОД ИЗ ЛЕГКИХ ВО-     |            |                 |      |
|           |               | ДОГАЗОПРОВОДНЫХ ТРУБ ПО       |            |                 |      |
|           |               | ГОСТ 3262-78:                 |            |                 |      |
| 1         |               | A15, М                        | 63         |                 | 63   |
| 2         |               | A20, М                        | 71         |                 | 1    |
| 3         |               | A25, М                        | 24         |                 | 19   |
| 4         |               | A32, М                        | 71         |                 | 40   |
| 5         |               | A40, М                        | 47         |                 | 20   |
| 6         |               | A50, М                        | 136        |                 | 69   |
| 7         | ГОСТ 10704-76 | ТРУБА 76X2,8, М               | 25         |                 | 12   |
| 8         | ГОСТ 10704-76 | ТРУБА 89X2,8, М               | 31         |                 | 15   |
|           |               | ГОСТ 18161-72                 |            |                 |      |
|           |               | ВЕНТИЛЬ ЗАПОРНЫЙ              |            |                 |      |
|           |               | МУФТОВЫЙ 15К4186Р             |            |                 |      |
| 9         |               | A15                           | 28         |                 | 0    |
| 10        |               | A20                           | 1          |                 | 0    |
| 11        |               | A25                           | 3          |                 | 0    |
|           |               | ГОСТ 2704-77                  |            |                 |      |
|           |               | КРАН КОНУСНЫЙ ПРОХОДНОЙ       |            |                 |      |
|           |               | САЛЬНИКОВЫЙ МУФТОВЫЙ          |            |                 |      |
|           |               | 11Б66К:                       |            |                 |      |
| 12        |               | A20                           | 31         |                 | 0    |
| 13        |               | A25                           | 1          |                 | 0    |
|           |               | ГОСТ 22595-77                 |            |                 |      |
|           |               | КРАН ПРОБНО-СПУСКНОЙ          |            |                 |      |
|           |               | САЛЬНИКОВЫЙ ЛАТУННЫЙ          |            |                 |      |
|           |               | 10Б19БК ИСП.3                 |            |                 |      |
| 14        |               | A15                           | 68         |                 | 0    |
|           |               | ГОСТ 8437-75                  |            |                 |      |
|           |               | ЗАДВИЖКА ПАРАЛЛЕЛЬНАЯ С       |            |                 |      |
|           |               | ВЫДВИЖНЫМ ШПИНАДЕЛЕМ          |            |                 |      |
|           |               | ФЛАНЦЕВАЯ 30466Р ИСП.3        |            |                 |      |
| 15        |               | A80                           | 4          |                 | 0    |
|           |               | 903-04-13                     |            |                 |      |
|           |               | УЗЕЛ УПРАВЛЕНИЯ               |            |                 |      |
| 16        |               | КОМПЛЕКТОВЧНЫЙ                | 1          |                 | 0    |
|           |               | СТОПЛЕНИЕ (ВЫШЕ ОТМЕТКИ 0.00) |            |                 |      |
|           |               | ТРУБОПРОВОД ИЗ ЛЕГКИХ ВО-     |            |                 |      |
|           |               | ДОГАЗОПРОВОДНЫХ ТРУБ ПО       |            |                 |      |

| ИНН | ОБОЗНАЧЕНИЕ | НАИМЕНОВАНИЕ | КОЛ- | МАССА  | ПРИМ |
|-----|-------------|--------------|------|--------|------|
| ПОС |             |              | ВО   | ЕД. КГ |      |

|    |               |                          |      |  |    |
|----|---------------|--------------------------|------|--|----|
|    | ГОСТ 3262-78: |                          |      |  |    |
| 17 |               | Д15, М                   | 513  |  | 11 |
| 18 |               | Д20, М                   | 1439 |  | 82 |
| 19 |               | Д25, М                   | 27   |  | 0  |
| 20 | ГОСТ 10944-75 | КРАН ТРЕХХОДОВОЙ КРТ Д15 | 55   |  | 0  |
| 21 | ГОСТ 10944-75 | КРАН ТРЕХХОДОВОЙ КРТ Д20 | 304  |  | 0  |

|    |                            |        |    |  |   |
|----|----------------------------|--------|----|--|---|
|    | РЕГИСТР ИЗ ВОДОГАЗСПРОВОДА |        |    |  |   |
|    | НЫХ ТРУБ ПО ГОСТ 3262-75   |        |    |  |   |
| 22 |                            | Д20, М | 13 |  | 0 |

|    |                      |                  |       |  |   |
|----|----------------------|------------------|-------|--|---|
|    | КРАН ВОЗДУХОСПУСКНОЙ |                  |       |  |   |
| 23 | Т. МАЕВСКОГО         |                  | 32    |  | 0 |
|    | ГОСТ 8690-75         | РАДИАТОР М140-А0 |       |  |   |
| 24 |                      | ЭКМ              | 661,5 |  |   |
| 25 |                      | СЕК              | 1890  |  |   |

|    |               |                       |   |  |  |
|----|---------------|-----------------------|---|--|--|
|    | ГОСТ 20849-75 | КОНВЕКТОР ВЫСОКАЯ     |   |  |  |
| 26 |               | С КОЖУХОМ КВ20-12-900 | 3 |  |  |

УДЕЛЬНЫЙ РАСХОД МЕТАЛЛА .8-КГ/КВ, М

ПРИМЕЧАНИЕ: В ГРАФЕ "ПРИМ" УКАЗАНА ДЛИНА ИЗОЛИРОВАННЫХ ТРУБОПРОВОДОВ