

**Ведомость учета отпуска тепловой энергии за период
с 01.01.2019 по 31.12.2019**

Потребитель: **ООО "Карат" 624260, г.Асбест, Свердловской обл., ул. Королева,14**
 Объект: **пр. Ленина, д. 10 (подъезды 4,5,6)**

Система отопления: двухтрубная зависимая	Эльф-03П	79603210	14.11.2022
Расчетная формула тепловой энергии: $Q = G^2 \times (T^1 - T^2) / 1000$, Гкал	Мастерфлоу М02-21-40	040003308	15.11.2022
Gmax= 11,4 тн/час	Мастерфлоу М02-21-40	040002888	15.11.2022
Gот= 7,5 тн/час	КТСП-Н	36365	22.11.2022
Gгвс= 3,9 тн/час			

Дата	Температура (°C)			Масса (тн)			Давление (ат)		Теплота (ГКал)	Время работы, час	
	T ₁	T ₂	ΔT	G ₁	G ₂	ΔG	P ₁	P ₂	Q _п	штатное	нештат.
01.01.19	69,29	53,83	15,46	197,910	201,336	-3,426	6,0	4,0	3,067	24,00	0,00
02.01.19	67,22	52,70	14,52	201,177	204,358	-3,181	6,0	4,0	2,929	24,00	0,00
03.01.19	66,09	52,15	13,94	202,399	205,407	-3,007	6,0	4,0	2,829	24,00	0,00
04.01.19	65,62	51,78	13,84	204,236	207,040	-2,805	6,0	4,0	2,835	24,00	0,00
05.01.19	65,70	51,99	13,71	202,091	205,000	-2,908	6,0	4,0	2,778	24,00	0,00
06.01.19	65,72	51,66	14,07	199,611	202,515	-2,904	6,0	4,0	2,816	24,00	0,00
07.01.19	65,98	51,69	14,28	198,082	201,021	-2,940	6,0	4,0	2,837	24,00	0,00
08.01.19	67,22	52,00	15,23	198,119	201,012	-2,894	6,0	4,0	3,025	24,00	0,00
09.01.19	67,17	52,36	14,81	196,596	199,534	-2,938	6,0	4,0	2,920	24,00	0,00
10.01.19	66,71	52,21	14,49	198,709	201,551	-2,842	6,0	4,0	2,888	24,00	0,00
11.01.19	65,90	51,67	14,22	198,815	201,504	-2,689	6,0	4,0	2,836	24,00	0,00
12.01.19	66,59	51,98	14,61	198,687	201,493	-2,806	6,0	4,0	2,912	24,00	0,00
13.01.19	65,67	51,57	14,10	202,918	205,471	-2,554	6,0	4,0	2,870	24,00	0,00
14.01.19	66,20	52,08	14,12	201,455	203,985	-2,530	6,0	4,0	2,852	24,00	0,00
15.01.19	66,05	51,93	14,12	199,416	201,925	-2,509	6,0	4,0	2,824	24,00	0,00
16.01.19	66,38	51,99	14,40	201,047	203,339	-2,291	6,0	4,0	2,903	24,00	0,00
17.01.19	66,37	52,37	14,01	201,042	203,364	-2,322	6,0	4,0	2,824	24,00	0,00
18.01.19	66,87	52,55	14,32	198,527	201,047	-2,520	6,0	4,0	2,851	24,00	0,00
19.01.19	66,32	52,23	14,09	203,393	205,695	-2,302	6,0	4,0	2,873	24,00	0,00
20.01.19	65,43	51,86	13,57	204,918	207,075	-2,158	6,0	4,0	2,790	24,00	0,00
21.01.19	66,50	52,26	14,23	199,348	201,545	-2,197	6,0	4,0	2,846	24,00	0,00
22.01.19	66,55	52,29	14,26	197,162	199,509	-2,347	6,0	4,0	2,820	24,00	0,00
23.01.19	67,59	52,53	15,07	196,953	199,183	-2,230	6,0	4,0	2,975	24,00	0,00
24.01.19	71,72	54,69	17,03	196,818	199,473	-2,655	6,0	4,0	3,361	24,00	0,00
25.01.19	70,64	54,18	16,46	193,093	195,526	-2,433	6,0	4,0	3,186	24,00	0,00
26.01.19	70,23	54,12	16,11	204,219	206,702	-2,483	6,0	4,0	3,298	24,00	0,00
27.01.19	72,13	54,89	17,24	202,657	205,236	-2,579	6,0	4,0	3,502	24,00	0,00
28.01.19	72,48	55,03	17,45	193,435	195,951	-2,516	6,0	4,0	3,385	24,00	0,00
29.01.19	71,69	54,69	17,00	196,552	199,139	-2,586	6,0	4,0	3,350	24,00	0,00
30.01.19	68,86	52,99	15,87	194,120	196,456	-2,337	6,0	4,0	3,089	23,97	0,03
31.01.19	69,77	53,35	16,42	195,233	197,522	-2,289	6,0	4,0	3,214	24,00	0,00
01.02.19	68,71	52,98	15,73	194,722	197,012	-2,290	6,0	4,0	3,070	24,00	0,00
02.02.19	68,70	52,71	15,99	195,747	198,018	-2,271	6,0	4,0	3,138	24,00	0,00
03.02.19	73,04	55,16	17,87	193,862	196,469	-2,607	6,0	4,0	3,474	24,00	0,00
04.02.19	77,92	58,02	19,90	192,445	195,283	-2,838	6,0	4,0	3,840	24,00	0,00
05.02.19	80,65	59,81	20,84	195,120	198,190	-3,070	6,0	4,0	4,078	24,00	0,00
06.02.19	80,43	59,70	20,73	192,761	195,802	-3,041	6,0	4,0	4,006	24,00	0,00
07.02.19	78,93	58,66	20,26	193,195	196,130	-2,936	6,0	4,0	3,925	24,00	0,00
08.02.19	73,75	55,93	17,82	193,126	195,709	-2,583	6,0	4,0	3,450	24,00	0,00
09.02.19	70,01	53,84	16,17	199,392	201,867	-2,475	6,0	4,0	3,232	24,00	0,00
10.02.19	67,61	52,51	15,10	201,441	203,541	-2,100	6,0	4,0	3,050	24,00	0,00
11.02.19	65,38	51,38	14,00	201,475	203,449	-1,974	6,0	4,0	2,830	24,00	0,00
12.02.19	65,28	51,49	13,79	201,600	203,308	-1,708	6,0	4,0	2,788	24,00	0,00
13.02.19	64,73	51,35	13,38	203,057	204,986	-1,929	6,0	4,0	2,725	24,00	0,00
14.02.19	64,44	51,14	13,30	204,217	206,025	-1,808	6,0	4,0	2,723	24,00	0,00
15.02.19	64,35	51,19	13,16	202,543	204,400	-1,857	6,0	4,0	2,674	24,00	0,00
16.02.19	64,42	51,04	13,39	201,120	202,932	-1,812	6,0	4,0	2,700	24,00	0,00
17.02.19	64,68	51,07	13,61	201,006	202,805	-1,799	6,0	4,0	2,744	24,00	0,00
18.02.19	64,26	51,16	13,10	202,765	204,534	-1,769	6,0	4,0	2,665	24,00	0,00
19.02.19	64,88	51,44	13,44	200,329	202,285	-1,957	6,0	4,0	2,701	24,00	0,00
20.02.19	65,57	51,89	13,68	198,963	200,965	-2,002	6,0	4,0	2,730	24,00	0,00
21.02.19	64,47	51,01	13,46	202,017	203,679	-1,662	6,0	4,0	2,727	24,00	0,00
22.02.19	65,22	52,08	13,14	206,022	207,751	-1,729	6,0	4,0	2,716	24,00	0,00
23.02.19	65,25	51,72	13,53	205,657	207,467	-1,810	6,0	4,0	2,790	24,00	0,00
24.02.19	65,15	51,45	13,70	202,604	204,349	-1,744	6,0	4,0	2,784	24,00	0,00
25.02.19	65,28	51,96	13,32	203,711	205,462	-1,751	6,0	4,0	2,721	24,00	0,00
26.02.19	65,10	51,71	13,38	201,391	203,283	-1,892	6,0	4,0	2,703	24,00	0,00
27.02.19	65,23	52,07	13,17	206,514	208,322	-1,807	6,0	4,0	2,727	24,00	0,00
28.02.19	65,02	51,98	13,04	204,824	206,891	-2,067	6,0	4,0	2,679	24,00	0,00
01.03.19	63,75	51,31	12,44	204,442	205,997	-1,555	6,0	4,0	2,551	24,00	0,00
02.03.19	64,02	51,42	12,60	205,504	207,068	-1,564	6,0	4,0	2,598	24,00	0,00

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	T ₁	T ₂	ΔT	G ₁	G ₂	ΔG	P ₁	P ₂	Q _п	штатное	нештат.
03.03.19	63,62	50,35	13,27	203,279	204,862	-1,583	6,0	4,0	2,706	23,95	0,05
04.03.19	65,08	51,51	13,58	200,173	201,955	-1,782	6,0	4,0	2,726	24,00	0,00
05.03.19	64,78	51,40	13,37	200,318	202,020	-1,702	6,0	4,0	2,687	24,00	0,00
06.03.19	64,28	51,11	13,18	203,219	204,894	-1,675	6,0	4,0	2,685	24,00	0,00
07.03.19	63,91	51,35	12,56	204,381	206,118	-1,737	6,0	4,0	2,576	24,00	0,00
08.03.19	64,17	51,09	13,08	201,181	202,924	-1,742	6,0	4,0	2,639	24,00	0,00
09.03.19	64,20	51,20	13,00	202,332	204,062	-1,730	6,0	4,0	2,638	24,00	0,00
10.03.19	64,18	51,06	13,12	200,663	202,345	-1,682	6,0	4,0	2,641	24,00	0,00
11.03.19	64,74	51,80	12,94	205,614	207,316	-1,702	6,0	4,0	2,670	24,00	0,00
12.03.19	64,70	51,80	12,90	203,957	205,784	-1,827	6,0	4,0	2,639	24,00	0,00
13.03.19	64,37	51,63	12,74	206,579	208,258	-1,678	6,0	4,0	2,639	23,98	0,02
14.03.19	64,67	51,95	12,72	203,731	205,530	-1,799	6,0	4,0	2,599	24,00	0,00
15.03.19	64,57	51,83	12,74	203,305	205,064	-1,759	6,0	4,0	2,597	24,00	0,00
16.03.19	64,65	51,78	12,87	202,576	204,385	-1,809	6,0	4,0	2,616	24,00	0,00
17.03.19	64,66	51,63	13,03	203,490	205,246	-1,756	6,0	4,0	2,659	24,00	0,00
18.03.19	64,70	52,07	12,63	205,908	207,658	-1,750	6,0	4,0	2,609	24,00	0,00
19.03.19	64,53	51,07	13,46	171,212	172,572	-1,360	6,0	4,0	2,312	23,85	0,15
20.03.19	63,78	48,85	14,93	137,774	138,811	-1,036	6,0	4,0	2,062	24,00	0,00
21.03.19	63,75	48,31	15,44	125,565	126,602	-1,036	6,0	4,0	1,943	24,00	0,00
22.03.19	63,96	48,92	15,04	120,541	121,631	-1,090	6,0	4,0	1,817	24,00	0,00
23.03.19	63,46	47,36	16,10	119,523	120,560	-1,037	6,0	4,0	1,928	24,00	0,00
24.03.19	63,46	48,12	15,34	129,827	130,824	-0,997	6,0	4,0	1,996	24,00	0,00
25.03.19	62,48	47,86	14,62	132,576	133,477	-0,901	6,0	4,0	1,943	24,00	0,00
26.03.19	63,36	48,67	14,69	133,375	134,383	-1,008	6,0	4,0	1,965	24,00	0,00
27.03.19	63,31	48,80	14,50	133,588	134,558	-0,971	6,0	4,0	1,942	24,00	0,00
28.03.19	62,67	48,33	14,34	129,141	130,206	-1,065	6,0	4,0	1,856	24,00	0,00
29.03.19	60,48	48,48	12,00	149,815	150,763	-0,948	6,0	4,0	1,804	24,00	0,00
30.03.19	62,78	48,69	14,08	135,089	134,680	0,409	6,0	4,0	1,907	23,83	0,17
31.03.19	62,97	48,26	14,70	134,393	135,596	-1,203	6,0	4,0	1,981	24,00	0,00
01.04.19	62,52	48,33	14,19	127,091	128,289	-1,198	6,0	4,0	1,808	24,00	0,00
02.04.19	62,70	48,58	14,12	128,185	129,338	-1,154	6,0	4,0	1,814	24,00	0,00
03.04.19	62,66	48,06	14,60	125,431	126,420	-0,989	6,0	4,0	1,836	24,00	0,00
04.04.19	62,41	48,24	14,17	126,159	126,928	-0,770	6,0	4,0	1,792	24,00	0,00
05.04.19	62,27	48,21	14,06	128,755	129,374	-0,619	6,0	4,0	1,814	24,00	0,00
06.04.19	62,04	47,99	14,06	124,819	125,372	-0,553	6,0	4,0	1,759	24,00	0,00
07.04.19	61,70	48,11	13,59	129,724	130,230	-0,506	6,0	4,0	1,767	24,00	0,00
08.04.19	61,09	49,38	11,71	141,423	142,064	-0,641	6,0	4,0	1,661	24,00	0,00
09.04.19	60,07	49,75	10,31	162,989	163,533	-0,543	6,0	4,0	1,687	24,00	0,00
10.04.19	60,28	50,03	10,25	162,567	163,199	-0,631	6,0	4,0	1,673	23,97	0,03
11.04.19	60,58	50,66	9,92	154,918	155,625	-0,707	6,0	4,0	1,543	24,00	0,00
12.04.19	60,59	51,35	9,24	148,302	149,191	-0,890	6,0	4,0	1,376	24,00	0,00
13.04.19	60,41	50,56	9,85	159,678	160,585	-0,907	6,0	4,0	1,579	24,00	0,00
14.04.19	60,28	49,74	10,54	170,253	170,847	-0,594	6,0	4,0	1,801	24,00	0,00
15.04.19	60,48	50,36	10,12	181,505	182,128	-0,624	6,0	4,0	1,844	24,00	0,00
16.04.19	60,23	49,97	10,26	179,620	180,128	-0,508	6,0	4,0	1,850	24,00	0,00
17.04.19	60,35	49,88	10,47	206,358	207,149	-0,791	6,0	4,0	2,168	24,00	0,00
18.04.19	60,34	49,85	10,50	196,716	197,469	-0,752	6,0	4,0	2,073	24,00	0,00
19.04.19	60,28	50,33	9,94	183,952	184,650	-0,698	6,0	4,0	1,836	24,00	0,00
20.04.19	57,82	47,81	10,01	173,351	173,758	-0,407	6,0	4,0	1,741	24,00	0,00
21.04.19	59,60	49,29	10,30	168,805	169,365	-0,560	6,0	4,0	1,745	24,00	0,00
22.04.19	60,49	50,39	10,10	152,293	153,043	-0,749	6,0	4,0	1,544	24,00	0,00
23.04.19	60,42	50,71	9,70	158,707	159,610	-0,904	6,0	4,0	1,546	24,00	0,00
24.04.19	60,57	50,32	10,25	163,761	164,515	-0,754	6,0	4,0	1,684	24,00	0,00
25.04.19	59,69	49,52	10,17	167,865	168,378	-0,513	6,0	4,0	1,714	24,00	0,00
26.04.19	58,28	47,85	10,43	173,601	174,177	-0,576	6,0	4,0	1,817	24,00	0,00
27.04.19	60,16	48,82	11,34	161,430	162,502	-1,072	6,0	4,0	1,837	24,00	0,00
28.04.19	59,81	49,16	10,65	171,405	172,195	-0,790	6,0	4,0	1,831	24,00	0,00
29.04.19	59,90	48,59	11,31	175,511	176,000	-0,489	6,0	4,0	1,992	24,00	0,00
30.04.19	60,10	49,35	10,75	185,335	185,938	-0,603	6,0	4,0	1,999	24,00	0,00
01.05.19	58,85	49,36	9,49	191,420	192,002	-0,582	6,0	4,0	1,824	24,00	0,00
02.05.19	58,97	49,99	8,98	173,731	174,496	-0,765	6,0	4,0	1,567	24,00	0,00
03.05.19	58,84	49,41	9,42	169,783	170,730	-0,947	6,0	4,0	1,606	24,00	0,00
04.05.19	58,74	50,17	8,57	161,606	162,678	-1,071	6,0	4,0	1,391	24,00	0,00
05.05.19	55,12	47,11	8,01	170,253	170,887	-0,634	6,0	4,0	1,370	24,00	0,00
06.05.19	58,71	50,00	8,71	139,744	140,491	-0,747	6,0	4,0	1,222	24,00	0,00
07.05.19	60,08	53,20	6,88	98,095	98,521	-0,426	6,0	4,0	0,678	23,87	0,13
08.05.19	59,86	56,14	3,72	86,009	86,266	-0,257	6,0	4,0	0,323	24,00	0,00
09.05.19	61,26	57,73	3,53	76,030	76,417	-0,387	6,0	4,0	0,272	22,88	1,12
10.05.19	61,70	57,61	4,09	70,501	70,861	-0,360	6,0	4,0	0,291	22,90	1,10
11.05.19	62,66	58,79	3,87	62,773	63,251	-0,478	6,0	4,0	0,246	21,77	2,23
12.05.19	63,21	57,74	5,48	62,773	63,294	-0,521	6,0	4,0	0,346	21,07	2,93
13.05.19	62,42	56,92	5,49	56,081	56,526	-0,445	6,0	4,0	0,310	20,93	3,07
14.05.19	63,14	58,07	5,07	59,885	60,418	-0,533	6,0	4,0	0,306	20,35	3,65
15.05.19	63,44	58,53	4,91	60,679	61,213	-0,535	6,0	4,0	0,300	19,85	4,15

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	T ₁	T ₂	ΔT	G ₁	G ₂	ΔG	P ₁	P ₂	Q _п	штатное	нештат.
16.05.19	63,25	58,12	5,13	57,313	57,729	-0,417	6,0	4,0	0,296	19,60	4,40
17.05.19	62,33	57,35	4,98	59,924	60,425	-0,501	6,0	4,0	0,301	21,78	2,22
18.05.19	62,23	57,28	4,95	64,414	64,995	-0,581	6,0	4,0	0,321	21,80	2,20
19.05.19	61,55	56,62	4,93	77,919	78,602	-0,683	6,0	4,0	0,388	22,85	1,15
20.05.19	60,15	56,48	3,67	96,336	97,039	-0,703	6,0	4,0	0,357	24,00	0,00
21.05.19	60,19	56,94	3,25	98,752	99,403	-0,652	6,0	4,0	0,325	24,00	0,00
22.05.19	60,17	56,91	3,26	97,237	97,995	-0,757	6,0	4,0	0,321	24,00	0,00
23.05.19	60,63	56,80	3,84	80,066	80,632	-0,566	6,0	4,0	0,310	23,77	0,23
24.05.19	60,87	57,00	3,87	86,147	86,790	-0,643	6,0	4,0	0,337	23,78	0,22
25.05.19	60,62	56,66	3,96	96,412	97,086	-0,674	6,0	4,0	0,386	23,93	0,07
26.05.19	60,54	56,64	3,91	86,325	86,878	-0,553	6,0	4,0	0,341	23,92	0,08
27.05.19	60,35	55,48	4,87	76,664	77,069	-0,405	6,0	4,0	0,376	24,00	0,00
28.05.19	62,42	56,92	5,50	66,383	66,706	-0,323	6,0	4,0	0,368	22,08	1,92
29.05.19	63,03	57,77	5,26	57,540	57,178	0,362	6,0	4,0	0,305	19,83	4,17
30.05.19	63,60	59,01	4,59	62,123	61,987	0,135	6,0	4,0	0,288	20,18	3,82
31.05.19	63,83	58,05	5,79	61,999	62,268	-0,269	6,0	4,0	0,361	20,42	3,58
01.06.19	64,75	59,60	5,15	55,929	56,141	-0,212	6,0	4,0	0,290	18,87	5,13
02.06.19	65,29	58,86	6,43	54,110	54,434	-0,323	6,0	4,0	0,350	18,88	5,12
03.06.19	64,58	58,73	5,85	54,176	54,567	-0,391	6,0	4,0	0,319	18,43	5,57
04.06.19	63,15	58,29	4,86	63,726	64,216	-0,490	6,0	4,0	0,312	21,03	2,97
05.06.19	61,83	57,33	4,50	66,847	67,180	-0,333	6,0	4,0	0,303	22,43	1,57
06.06.19	62,65	60,14	2,51	29,661	29,870	-0,209	6,0	4,0	0,076	7,90	16,10
07.06.19	62,90	57,53	5,37	58,624	59,057	-0,433	6,0	4,0	0,317	20,23	3,77
08.06.19	64,74	59,89	4,85	63,182	63,712	-0,529	6,0	4,0	0,309	19,60	4,40
09.06.19	64,92	58,30	6,61	57,050	57,553	-0,502	6,0	4,0	0,379	19,25	4,75
10.06.19	64,99	59,02	5,97	55,915	56,405	-0,490	6,0	4,0	0,336	19,33	4,67
11.06.19	65,26	59,57	5,68	54,103	54,575	-0,472	6,0	4,0	0,310	17,95	6,05
12.06.19	66,12	60,96	5,16	52,985	53,511	-0,526	6,0	4,0	0,276	17,05	6,95
13.06.19	61,01	58,62	2,39	34,368	34,664	-0,297	6,0	4,0	0,083	7,08	16,92
14.06.19	0,00	0,00	0,00	0,000	0,000	0,000	6,0	4,0	0,000	0,00	24,00
15.06.19	0,00	0,00	0,00	0,000	0,000	0,000	6,0	4,0	0,000	0,00	24,00
16.06.19	0,00	0,00	0,00	0,000	0,000	0,000	6,0	4,0	0,000	0,00	24,00
17.06.19	0,00	0,00	0,00	0,000	0,000	0,000	6,0	4,0	0,000	0,00	24,00
18.06.19	0,00	0,00	0,00	0,000	0,000	0,000	6,0	4,0	0,000	0,00	24,00
19.06.19	0,00	0,00	0,00	0,000	0,000	0,000	6,0	4,0	0,000	0,00	24,00
20.06.19	0,00	0,00	0,00	0,000	0,000	0,000	6,0	4,0	0,000	0,00	24,00
21.06.19	0,00	0,00	0,00	0,000	0,000	0,000	6,0	4,0	0,000	0,00	24,00
22.06.19	0,00	0,00	0,00	0,000	0,000	0,000	6,0	4,0	0,000	0,00	24,00
23.06.19	0,00	0,00	0,00	0,000	0,000	0,000	6,0	4,0	0,000	0,00	24,00
24.06.19	0,00	0,00	0,00	0,000	0,000	0,000	6,0	4,0	0,000	0,00	24,00
25.06.19	0,00	0,00	0,00	0,000	0,000	0,000	6,0	4,0	0,000	0,00	24,00
26.06.19	0,00	0,00	0,00	0,000	0,000	0,000	6,0	4,0	0,000	0,00	24,00
27.06.19	16,67	16,39	0,27	6,096	5,790	0,306	6,0	4,0	0,002	14,55	9,45
28.06.19	29,05	28,11	0,95	43,250	43,223	0,027	6,0	4,0	0,043	23,63	0,37
29.06.19	58,16	55,73	2,43	116,907	118,590	-1,683	6,0	4,0	0,289	23,67	0,33
30.06.19	64,10	59,79	4,31	63,694	64,610	-0,916	6,0	4,0	0,277	19,23	4,77
01.07.19	63,28	59,15	4,13	64,289	65,186	-0,897	6,0	4,0	0,268	19,62	4,38
02.07.19	62,04	57,56	4,48	72,273	73,262	-0,989	6,0	4,0	0,327	20,75	3,25
03.07.19	62,81	58,45	4,36	70,858	71,887	-1,029	6,0	4,0	0,312	20,15	3,85
04.07.19	61,02	57,85	3,17	93,476	94,827	-1,351	6,0	4,0	0,300	20,58	3,42
05.07.19	61,24	57,71	3,53	63,407	64,271	-0,864	6,0	4,0	0,226	19,58	4,42
06.07.19	62,36	58,32	4,04	67,999	68,945	-0,946	6,0	4,0	0,277	20,88	3,12
07.07.19	63,39	59,19	4,20	63,275	64,197	-0,922	6,0	4,0	0,268	19,27	4,73
08.07.19	60,14	56,41	3,73	52,538	53,245	-0,707	6,0	4,0	0,198	14,68	9,32
09.07.19	59,60	55,37	4,23	63,327	64,082	-0,755	6,0	4,0	0,270	23,88	0,12
10.07.19	61,09	56,19	4,91	50,071	50,726	-0,654	6,0	4,0	0,248	19,83	4,17
11.07.19	61,11	56,17	4,93	56,103	56,833	-0,730	6,0	4,0	0,279	22,30	1,70
12.07.19	61,93	56,46	5,47	54,647	55,345	-0,698	6,0	4,0	0,301	21,80	2,20
13.07.19	63,24	58,14	5,10	53,094	53,765	-0,671	6,0	4,0	0,273	20,28	3,72
14.07.19	64,01	57,79	6,22	49,180	49,801	-0,621	6,0	4,0	0,308	18,87	5,13
15.07.19	63,25	57,38	5,88	52,189	52,823	-0,634	6,0	4,0	0,309	19,55	4,45
16.07.19	59,93	56,06	3,87	60,461	61,196	-0,735	6,0	4,0	0,236	19,38	4,62
17.07.19	37,64	35,64	2,00	86,012	86,697	-0,684	6,0	4,0	0,175	24,00	0,00
18.07.19	30,28	28,84	1,44	89,297	89,922	-0,625	6,0	4,0	0,133	23,98	0,02
19.07.19	48,49	45,45	3,04	96,275	97,254	-0,979	6,0	4,0	0,297	24,00	0,00
20.07.19	59,19	54,22	4,97	59,683	60,347	-0,665	6,0	4,0	0,299	23,65	0,35
21.07.19	60,69	56,53	4,17	62,387	63,208	-0,821	6,0	4,0	0,262	23,27	0,73
22.07.19	61,25	55,59	5,66	57,122	57,899	-0,777	6,0	4,0	0,325	22,37	1,63
23.07.19	61,42	55,84	5,58	52,019	52,726	-0,707	6,0	4,0	0,292	22,12	1,88
24.07.19	61,94	56,59	5,36	53,944	54,707	-0,763	6,0	4,0	0,291	21,05	2,95
25.07.19	63,33	57,24	6,10	50,371	51,129	-0,758	6,0	4,0	0,309	19,68	4,32
26.07.19	64,11	58,04	6,07	48,330	49,060	-0,729	6,0	4,0	0,295	18,97	5,03
27.07.19	64,29	58,97	5,32	48,627	49,383	-0,756	6,0	4,0	0,261	18,77	5,23
28.07.19	63,89	57,76	6,14	51,275	52,034	-0,759	6,0	4,0	0,317	19,70	4,30

Дата	Температура (°C)			Масса (тн)			Давление (ат)		Теплота (ГКал)	Время работы, час	
	T ₁	T ₂	ΔT	G ₁	G ₂	ΔG	P ₁	P ₂	Q _п	штатное	нештат.
29.07.19	60,42	56,35	4,07	77,662	78,748	-1,086	6,0	4,0	0,319	21,52	2,48
30.07.19	59,02	56,31	2,71	38,314	38,758	-0,444	6,0	4,0	0,106	11,00	13,00
31.07.19	34,06	18,62	15,44	0,000	0,000	0,000	6,0	4,0	0,000	0,00	24,00
01.08.19	18,85	19,26	-0,41	0,064	0,067	-0,003	6,0	4,0	0,000	0,12	23,88
02.08.19	26,59	25,47	1,12	65,608	66,282	-0,674	6,0	4,0	0,076	15,32	8,68
03.08.19	52,07	49,31	2,75	98,067	99,193	-1,125	6,0	4,0	0,274	24,00	0,00
04.08.19	59,57	55,14	4,43	76,570	77,576	-1,006	6,0	4,0	0,342	24,00	0,00
05.08.19	60,60	55,06	5,54	57,849	58,654	-0,804	6,0	4,0	0,323	23,50	0,50
06.08.19	62,14	55,93	6,21	53,233	54,026	-0,793	6,0	4,0	0,333	20,83	3,17
07.08.19	62,34	57,09	5,24	52,082	52,916	-0,834	6,0	4,0	0,275	20,12	3,88
08.08.19	63,11	56,94	6,17	51,476	52,272	-0,796	6,0	4,0	0,320	20,30	3,70
09.08.19	62,97	57,54	5,43	52,174	52,978	-0,804	6,0	4,0	0,285	19,33	4,67
10.08.19	63,40	57,73	5,66	48,345	49,103	-0,758	6,0	4,0	0,276	18,58	5,42
11.08.19	64,53	58,40	6,13	49,521	50,331	-0,810	6,0	4,0	0,305	19,35	4,65
12.08.19	63,98	57,79	6,19	47,594	48,343	-0,749	6,0	4,0	0,296	18,55	5,45
13.08.19	64,28	59,19	5,09	49,761	50,553	-0,793	6,0	4,0	0,255	18,47	5,53
14.08.19	63,44	58,49	4,95	50,508	51,248	-0,740	6,0	4,0	0,252	18,82	5,18
15.08.19	63,55	59,31	4,23	50,651	51,439	-0,788	6,0	4,0	0,216	18,10	5,90
16.08.19	63,98	58,69	5,29	48,027	48,772	-0,745	6,0	4,0	0,256	18,07	5,93
17.08.19	64,64	59,92	4,72	48,610	49,370	-0,760	6,0	4,0	0,231	17,57	6,43
18.08.19	65,42	58,68	6,75	49,773	50,579	-0,806	6,0	4,0	0,338	18,95	5,05
19.08.19	64,61	58,52	6,09	49,318	50,108	-0,791	6,0	4,0	0,302	18,98	5,02
20.08.19	65,27	59,90	5,37	48,876	49,648	-0,772	6,0	4,0	0,264	17,95	6,05
21.08.19	65,00	59,83	5,17	44,828	45,593	-0,765	6,0	4,0	0,233	16,83	7,17
22.08.19	63,92	58,33	5,60	53,290	54,174	-0,885	6,0	4,0	0,300	19,67	4,33
23.08.19	62,94	57,83	5,11	54,402	55,267	-0,865	6,0	4,0	0,280	19,98	4,02
24.08.19	64,96	59,06	5,90	50,680	51,559	-0,879	6,0	4,0	0,301	18,95	5,05
25.08.19	64,95	59,06	5,90	48,270	49,092	-0,822	6,0	4,0	0,287	18,17	5,83
26.08.19	63,77	57,32	6,45	46,323	47,078	-0,754	6,0	4,0	0,300	18,27	5,73
27.08.19	64,12	58,89	5,24	52,358	53,198	-0,840	6,0	4,0	0,276	19,08	4,92
28.08.19	63,73	57,69	6,04	51,494	52,323	-0,829	6,0	4,0	0,313	19,57	4,43
29.08.19	63,39	58,23	5,16	51,499	52,288	-0,788	6,0	4,0	0,268	19,15	4,85
30.08.19	63,14	58,08	5,06	55,839	56,788	-0,949	6,0	4,0	0,285	20,13	3,87
31.08.19	62,81	58,01	4,80	52,958	53,859	-0,901	6,0	4,0	0,256	19,68	4,32
01.09.19	63,00	56,52	6,48	51,969	52,791	-0,822	6,0	4,0	0,339	20,07	3,93
02.09.19	61,61	56,50	5,11	57,295	58,238	-0,943	6,0	4,0	0,295	21,37	2,63
03.09.19	61,87	56,59	5,28	58,862	59,844	-0,982	6,0	4,0	0,313	21,15	2,85
04.09.19	61,94	56,09	5,85	57,470	58,412	-0,941	6,0	4,0	0,338	21,80	2,20
05.09.19	60,69	55,48	5,21	55,589	56,451	-0,862	6,0	4,0	0,292	22,98	1,02
06.09.19	60,71	56,66	4,06	65,843	66,846	-1,004	6,0	4,0	0,270	23,22	0,78
07.09.19	60,54	55,60	4,94	66,538	67,512	-0,974	6,0	4,0	0,331	23,33	0,67
08.09.19	60,53	55,21	5,32	69,405	70,457	-1,052	6,0	4,0	0,372	23,33	0,67
09.09.19	59,52	54,69	4,83	76,131	77,271	-1,140	6,0	4,0	0,371	23,85	0,15
10.09.19	60,13	55,25	4,88	67,878	68,920	-1,042	6,0	4,0	0,334	23,37	0,63
11.09.19	60,40	55,44	4,96	62,951	63,895	-0,944	6,0	4,0	0,314	23,15	0,85
12.09.19	60,51	55,52	4,99	60,199	61,122	-0,923	6,0	4,0	0,303	19,63	4,37
13.09.19	41,43	39,07	2,36	92,828	93,946	-1,118	6,0	4,0	0,223	24,00	0,00
14.09.19	57,58	54,68	2,90	96,391	97,696	-1,306	6,0	4,0	0,283	24,00	0,00
15.09.19	59,72	54,39	5,33	79,743	80,924	-1,181	6,0	4,0	0,428	23,88	0,12
16.09.19	59,40	54,65	4,75	69,045	70,013	-0,968	6,0	4,0	0,331	23,62	0,38
17.09.19	59,78	55,87	3,90	90,342	91,646	-1,304	6,0	4,0	0,356	23,98	0,02
18.09.19	59,29	55,34	3,95	82,415	83,565	-1,150	6,0	4,0	0,328	23,73	0,27
19.09.19	60,05	55,66	4,40	76,632	77,627	-0,994	6,0	4,0	0,340	23,63	0,37
20.09.19	60,28	48,07	12,21	127,775	128,829	-1,054	6,0	4,0	1,564	24,00	0,00
21.09.19	59,93	46,37	13,56	163,317	165,554	-2,236	6,0	4,0	2,220	24,00	0,00
22.09.19	59,92	46,80	13,11	166,995	169,115	-2,120	6,0	4,0	2,196	24,00	0,00
23.09.19	60,21	46,73	13,48	165,169	167,380	-2,211	6,0	4,0	2,232	24,00	0,00
24.09.19	59,97	47,36	12,62	173,013	175,176	-2,163	6,0	4,0	2,189	24,00	0,00
25.09.19	60,09	47,38	12,71	172,781	174,923	-2,142	6,0	4,0	2,201	24,00	0,00
26.09.19	48,84	39,74	9,10	154,199	155,870	-1,671	6,0	4,0	1,409	23,98	0,02
27.09.19	54,12	43,07	11,04	176,861	178,699	-1,838	6,0	4,0	1,959	24,00	0,00
28.09.19	59,30	47,12	12,18	173,932	175,999	-2,067	6,0	4,0	2,124	24,00	0,00
29.09.19	59,69	47,02	12,67	174,470	176,701	-2,230	6,0	4,0	2,217	24,00	0,00
30.09.19	59,55	47,46	12,09	175,963	178,229	-2,266	6,0	4,0	2,133	23,98	0,02
01.10.19	60,03	47,76	12,26	173,254	175,551	-2,297	6,0	4,0	2,131	23,98	0,02
02.10.19	59,42	47,73	11,69	175,235	177,520	-2,285	6,0	4,0	2,054	24,00	0,00
03.10.19	60,15	47,81	12,34	171,595	173,915	-2,320	6,0	4,0	2,124	23,98	0,02
04.10.19	60,34	48,18	12,16	170,743	173,083	-2,340	6,0	4,0	2,082	23,98	0,02
05.10.19	59,94	48,78	11,15	180,766	183,127	-2,361	6,0	4,0	2,023	24,00	0,00
06.10.19	60,20	48,23	11,97	175,460	177,808	-2,348	6,0	4,0	2,106	23,98	0,02
07.10.19	60,79	48,77	12,01	173,139	175,478	-2,339	6,0	4,0	2,086	24,00	0,00
08.10.19	60,70	48,76	11,95	174,245	176,631	-2,386	6,0	4,0	2,088	24,00	0,00
09.10.19	60,38	48,92	11,46	179,371	182,135	-2,764	6,0	4,0	2,061	24,00	0,00
10.10.19	60,42	48,41	12,01	173,712	176,460	-2,748	6,0	4,0	2,092	24,00	0,00

Дата	Температура (°C)			Масса (тн)			Давление (ат)		Теплота (ГКал)	Время работы, час	
	T ₁	T ₂	ΔT	G ₁	G ₂	ΔG	P ₁	P ₂	Q _п	штатное	нештат.
11.10.19	60,30	48,38	11,92	176,617	179,293	-2,676	6,0	4,0	2,111	24,00	0,00
12.10.19	60,20	48,70	11,50	177,830	180,533	-2,703	6,0	4,0	2,052	24,00	0,00
13.10.19	60,37	48,25	12,12	176,638	179,448	-2,810	6,0	4,0	2,148	24,00	0,00
14.10.19	60,57	48,45	12,12	175,605	178,294	-2,689	6,0	4,0	2,135	24,00	0,00
15.10.19	60,61	48,70	11,91	176,898	179,596	-2,698	6,0	4,0	2,113	24,00	0,00
16.10.19	59,76	48,19	11,57	180,054	182,717	-2,663	6,0	4,0	2,090	24,00	0,00
17.10.19	57,88	46,03	11,86	165,206	167,715	-2,509	6,0	4,0	1,965	24,00	0,00
18.10.19	60,42	47,87	12,55	173,227	175,843	-2,615	6,0	4,0	2,180	24,00	0,00
19.10.19	59,93	47,42	12,51	172,372	175,013	-2,641	6,0	4,0	2,162	23,98	0,02
20.10.19	59,79	46,64	13,15	173,175	175,846	-2,671	6,0	4,0	2,283	23,98	0,02
21.10.19	59,74	47,24	12,50	174,028	176,706	-2,678	6,0	4,0	2,181	24,00	0,00
22.10.19	60,00	47,58	12,41	176,220	178,808	-2,588	6,0	4,0	2,194	24,00	0,00
23.10.19	60,09	47,74	12,35	177,138	179,912	-2,774	6,0	4,0	2,194	24,00	0,00
24.10.19	60,39	48,30	12,09	178,467	181,308	-2,841	6,0	4,0	2,164	24,00	0,00
25.10.19	60,76	48,85	11,92	181,006	183,927	-2,921	6,0	4,0	2,163	24,00	0,00
26.10.19	60,48	49,23	11,25	186,414	189,370	-2,956	6,0	4,0	2,104	24,00	0,00
27.10.19	60,09	48,91	11,18	192,643	195,708	-3,065	6,0	4,0	2,161	23,98	0,02
28.10.19	60,41	48,57	11,84	182,507	185,591	-3,084	6,0	4,0	2,168	24,00	0,00
29.10.19	60,46	48,68	11,78	184,265	187,374	-3,108	6,0	4,0	2,177	24,00	0,00
30.10.19	60,74	47,97	12,77	174,436	177,310	-2,874	6,0	4,0	2,234	24,00	0,00
31.10.19	60,51	48,21	12,30	183,891	186,690	-2,799	6,0	4,0	2,268	24,00	0,00
01.11.19	62,08	48,47	13,61	170,912	173,697	-2,785	6,0	4,0	2,332	24,00	0,00
02.11.19	62,37	47,99	14,38	169,041	171,821	-2,780	6,0	4,0	2,436	24,00	0,00
03.11.19	62,38	48,29	14,09	169,344	172,128	-2,784	6,0	4,0	2,393	24,00	0,00
04.11.19	62,40	48,22	14,17	169,926	172,803	-2,878	6,0	4,0	2,414	24,00	0,00
05.11.19	62,17	48,34	13,82	170,153	172,884	-2,730	6,0	4,0	2,358	24,00	0,00
06.11.19	62,42	48,89	13,53	172,054	174,856	-2,801	6,0	4,0	2,334	24,00	0,00
07.11.19	62,46	49,14	13,32	171,092	173,981	-2,888	6,0	4,0	2,285	24,00	0,00
08.11.19	62,18	48,60	13,58	169,165	172,249	-3,083	6,0	4,0	2,304	24,00	0,00
09.11.19	61,98	48,11	13,87	170,168	173,244	-3,076	6,0	4,0	2,366	23,98	0,02
10.11.19	62,22	47,32	14,90	171,704	174,824	-3,120	6,0	4,0	2,565	24,00	0,00
11.11.19	62,16	48,34	13,82	169,302	172,388	-3,086	6,0	4,0	2,346	23,98	0,02
12.11.19	62,36	48,13	14,24	168,185	171,212	-3,026	6,0	4,0	2,400	23,98	0,02
13.11.19	62,17	48,12	14,05	168,466	171,444	-2,978	6,0	4,0	2,374	24,00	0,00
14.11.19	64,36	48,72	15,64	164,651	167,564	-2,914	6,0	4,0	2,581	24,00	0,00
15.11.19	64,19	48,69	15,49	164,361	167,275	-2,914	6,0	4,0	2,552	24,00	0,00
16.11.19	62,68	48,08	14,60	166,898	169,807	-2,909	6,0	4,0	2,443	23,98	0,02
17.11.19	61,91	47,83	14,08	171,992	174,852	-2,860	6,0	4,0	2,428	23,97	0,03
18.11.19	64,21	48,97	15,24	167,181	170,195	-3,014	6,0	4,0	2,555	23,98	0,02
19.11.19	73,97	52,57	21,41	150,124	153,428	-3,305	6,0	4,0	3,221	24,00	0,00
20.11.19	74,44	52,66	21,78	149,219	152,395	-3,175	6,0	4,0	3,258	24,00	0,00
21.11.19	69,35	50,30	19,06	153,803	156,790	-2,987	6,0	4,0	2,938	24,00	0,00
22.11.19	65,49	49,03	16,45	161,955	164,774	-2,819	6,0	4,0	2,671	24,00	0,00
23.11.19	64,42	48,44	15,98	161,564	164,434	-2,870	6,0	4,0	2,587	24,00	0,00
24.11.19	64,46	48,74	15,72	165,251	168,158	-2,907	6,0	4,0	2,603	24,00	0,00
25.11.19	64,34	48,51	15,83	166,031	169,054	-3,023	6,0	4,0	2,635	24,00	0,00
26.11.19	64,56	48,45	16,11	160,918	163,887	-2,968	6,0	4,0	2,598	24,00	0,00
27.11.19	64,56	48,77	15,79	163,406	166,385	-2,979	6,0	4,0	2,586	24,00	0,00
28.11.19	64,42	48,31	16,10	162,299	165,260	-2,961	6,0	4,0	2,620	24,00	0,00
29.11.19	64,98	49,08	15,90	163,207	166,197	-2,990	6,0	4,0	2,601	24,00	0,00
30.11.19	64,75	48,76	15,99	160,751	163,720	-2,968	6,0	4,0	2,576	24,00	0,00
01.12.19	64,71	48,37	16,34	163,989	166,984	-2,995	6,0	4,0	2,686	24,00	0,00
02.12.19	64,66	48,46	16,21	160,681	163,675	-2,994	6,0	4,0	2,610	24,00	0,00
03.12.19	64,37	48,65	15,72	163,518	166,430	-2,912	6,0	4,0	2,576	23,98	0,02
04.12.19	64,62	48,58	16,04	163,460	166,345	-2,885	6,0	4,0	2,627	24,00	0,00
05.12.19	64,30	48,52	15,77	162,250	165,189	-2,939	6,0	4,0	2,565	23,98	0,02
06.12.19	64,58	48,76	15,82	163,635	166,589	-2,954	6,0	4,0	2,595	23,98	0,02
07.12.19	64,41	48,83	15,58	164,120	167,215	-3,095	6,0	4,0	2,564	24,00	0,00
08.12.19	64,39	48,85	15,53	164,125	167,218	-3,093	6,0	4,0	2,556	24,00	0,00
09.12.19	64,81	49,68	15,13	160,387	163,413	-3,026	6,0	4,0	2,432	23,12	0,88
10.12.19	64,69	49,74	14,95	163,316	166,494	-3,178	6,0	4,0	2,448	24,00	0,00
11.12.19	65,01	49,61	15,39	165,434	168,660	-3,225	6,0	4,0	2,553	23,98	0,02
12.12.19	63,97	49,29	14,67	165,877	169,080	-3,203	6,0	4,0	2,440	24,00	0,00
13.12.19	63,59	48,94	14,65	166,377	169,609	-3,232	6,0	4,0	2,444	24,00	0,00
14.12.19	65,19	49,06	16,13	164,487	167,781	-3,294	6,0	4,0	2,659	24,00	0,00
15.12.19	64,63	48,61	16,02	165,297	168,553	-3,256	6,0	4,0	2,653	24,00	0,00
16.12.19	64,64	49,01	15,63	162,072	165,200	-3,128	6,0	4,0	2,540	24,00	0,00
17.12.19	64,60	49,01	15,59	162,867	165,943	-3,076	6,0	4,0	2,545	24,00	0,00
18.12.19	64,36	48,52	15,85	161,896	164,895	-2,999	6,0	4,0	2,572	24,00	0,00
19.12.19	64,91	49,43	15,48	163,809	166,687	-2,878	6,0	4,0	2,542	24,00	0,00
20.12.19	64,60	48,91	15,70	162,119	164,946	-2,827	6,0	4,0	2,551	24,00	0,00
21.12.19	65,32	49,16	16,16	160,550	163,437	-2,886	6,0	4,0	2,600	24,00	0,00
22.12.19	64,87	48,45	16,42	163,795	166,704	-2,909	6,0	4,0	2,696	24,00	0,00
23.12.19	64,73	48,47	16,26	163,189	166,241	-3,052	6,0	4,0	2,660	24,00	0,00

Дата	Температура (°C)			Масса (тн)			Давление (ат)		Теплота (ГКал)	Время работы, час	
	T ₁	T ₂	ΔT	G ₁	G ₂	ΔG	P ₁	P ₂	Q _п	штатное	нештат.
24.12.19	64,30	48,72	15,59	164,988	167,956	-2,968	6,0	4,0	2,578	24,00	0,00
25.12.19	66,23	49,98	16,24	164,908	167,971	-3,064	6,0	4,0	2,685	24,00	0,00
26.12.19	67,38	50,41	16,97	158,812	161,922	-3,110	6,0	4,0	2,702	23,98	0,02
27.12.19	67,18	50,22	16,96	158,952	162,053	-3,101	6,0	4,0	2,702	24,00	0,00
28.12.19	66,78	49,69	17,09	158,686	161,814	-3,128	6,0	4,0	2,718	23,98	0,02
29.12.19	67,71	49,40	18,31	156,234	159,378	-3,144	6,0	4,0	2,867	23,97	0,03
30.12.19	74,88	52,59	22,28	149,026	152,415	-3,388	6,0	4,0	3,328	23,97	0,03
31.12.19	71,90	51,11	20,78	153,114	156,367	-3,253	6,0	4,0	3,189	23,95	0,05
Итого	60,25	49,95	10,29	47881,297	48466,080	-584,783	6,00	4,00	593,979	7990,85	769,15



Место для записи представителя PCO

Ответственный за учет тепловой энергии:

Представитель обслуживающей организации:

