



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: **ул. Московская, д. 23**

Система отопления: двухтрубная зависимая	Эльф-03	75503210	21.08.2018
Расчетная формула тепловой энергии:	МастерФлоу МФ-2-21-Б-40	40003306	10.10.2022
$Q = G^2 \times (T^1 - T^2) / 1000$, Гкал	МастерФлоу МФ-2-21-Б-40	40002881	10.10.2022
	КТСП-Н	36370	21.08.2018

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	71,67	56,37	15,30	280,944	282,966	-2,022	6,0	4,0	4,312	24,00	0,00
02.01.19	70,56	55,56	15,00	279,059	281,100	-2,041	6,0	4,0	4,198	24,00	0,00
03.01.19	67,67	53,64	14,03	277,895	279,852	-1,956	6,0	4,0	3,910	24,00	0,00
04.01.19	67,31	53,56	13,75	276,377	278,315	-1,938	6,0	4,0	3,811	24,00	0,00
05.01.19	66,99	53,19	13,80	276,520	278,484	-1,965	6,0	4,0	3,828	24,00	0,00
06.01.19	66,60	52,56	14,04	277,132	279,043	-1,912	6,0	4,0	3,901	24,00	0,00
07.01.19	67,29	53,41	13,88	277,553	279,388	-1,835	6,0	4,0	3,863	24,00	0,00
08.01.19	68,50	53,81	14,69	276,783	278,577	-1,794	6,0	4,0	4,078	24,00	0,00
09.01.19	69,07	53,80	15,26	276,892	278,774	-1,882	6,0	4,0	4,238	24,00	0,00
10.01.19	67,43	53,18	14,25	277,476	279,364	-1,889	6,0	4,0	3,966	24,00	0,00
11.01.19	65,68	51,82	13,85	267,305	269,096	-1,791	6,0	4,0	3,713	23,68	0,32
12.01.19	67,80	53,25	14,56	274,338	276,274	-1,936	6,0	4,0	4,005	24,00	0,00
13.01.19	67,32	53,15	14,17	275,310	277,345	-2,036	6,0	4,0	3,912	24,00	0,00
14.01.19	67,36	53,55	13,80	276,281	278,334	-2,052	6,0	4,0	3,825	24,00	0,00
15.01.19	67,52	53,47	14,06	276,229	278,329	-2,101	6,0	4,0	3,894	23,98	0,02
16.01.19	67,54	53,95	13,58	277,232	279,304	-2,072	6,0	4,0	3,777	24,00	0,00
17.01.19	67,58	53,75	13,83	276,152	278,136	-1,984	6,0	4,0	3,830	23,93	0,07
18.01.19	67,34	53,89	13,45	279,909	281,842	-1,933	6,0	4,0	3,777	24,00	0,00
19.01.19	67,12	53,62	13,50	281,555	283,665	-2,110	6,0	4,0	3,813	24,00	0,00
20.01.19	67,18	53,81	13,38	279,651	281,789	-2,139	6,0	4,0	3,752	24,00	0,00
21.01.19	68,24	54,39	13,85	278,363	280,411	-2,048	6,0	4,0	3,866	24,00	0,00
22.01.19	67,67	53,94	13,73	278,378	280,454	-2,077	6,0	4,0	3,833	24,00	0,00
23.01.19	69,18	54,75	14,44	280,043	282,248	-2,205	6,0	4,0	4,055	24,00	0,00
24.01.19	72,62	56,92	15,70	282,059	284,360	-2,301	6,0	4,0	4,441	24,00	0,00
25.01.19	72,12	56,76	15,36	281,522	283,790	-2,269	6,0	4,0	4,336	24,00	0,00
26.01.19	70,69	55,18	15,51	279,294	281,450	-2,156	6,0	4,0	4,345	24,00	0,00
27.01.19	73,44	56,83	16,62	269,011	271,207	-2,196	6,0	4,0	4,483	23,03	0,97
28.01.19	74,35	57,76	16,59	279,341	281,692	-2,351	6,0	4,0	4,649	24,00	0,00
29.01.19	73,46	57,33	16,14	279,838	282,153	-2,314	6,0	4,0	4,528	24,00	0,00
30.01.19	70,67	55,54	15,13	278,946	281,187	-2,240	6,0	4,0	4,234	24,00	0,00
31.01.19	72,42	56,41	16,01	277,261	279,568	-2,307	6,0	4,0	4,452	24,00	0,00
01.02.19	69,53	54,57	14,96	277,544	279,778	-2,234	6,0	4,0	4,165	24,00	0,00
02.02.19	69,53	54,57	14,96	275,056	277,256	-2,200	6,0	4,0	4,126	24,00	0,00
03.02.19	74,33	57,23	17,11	275,743	277,948	-2,205	6,0	4,0	4,731	24,00	0,00
04.02.19	79,62	60,64	18,98	277,563	279,943	-2,380	6,0	4,0	5,283	24,00	0,00
05.02.19	80,90	61,83	19,07	280,248	282,630	-2,382	6,0	4,0	5,360	24,00	0,00
06.02.19	81,05	61,86	19,19	280,800	283,258	-2,458	6,0	4,0	5,404	24,00	0,00
07.02.19	79,83	61,01	18,82	281,470	283,954	-2,484	6,0	4,0	5,312	24,00	0,00
08.02.19	75,33	58,57	16,76	280,520	282,710	-2,189	6,0	4,0	4,716	24,00	0,00
09.02.19	72,03	56,29	15,74	279,757	281,967	-2,210	6,0	4,0	4,415	24,00	0,00
10.02.19	70,13	54,92	15,21	280,003	282,061	-2,058	6,0	4,0	4,270	24,00	0,00
11.02.19	66,67	53,15	13,52	279,405	281,493	-2,088	6,0	4,0	3,789	24,00	0,00
12.02.19	66,46	52,86	13,60	278,731	280,749	-2,018	6,0	4,0	3,801	24,00	0,00
13.02.19	65,93	52,51	13,42	280,132	282,179	-2,047	6,0	4,0	3,772	24,00	0,00
14.02.19	66,78	53,54	13,24	281,465	283,567	-2,103	6,0	4,0	3,737	24,00	0,00
15.02.19	66,44	53,53	12,92	282,336	284,373	-2,037	6,0	4,0	3,658	24,00	0,00
16.02.19	66,71	53,65	13,06	282,616	284,780	-2,163	6,0	4,0	3,701	24,00	0,00
17.02.19	66,34	53,08	13,27	281,177	283,378	-2,200	6,0	4,0	3,741	24,00	0,00
18.02.19	67,03	53,73	13,30	280,643	282,730	-2,087	6,0	4,0	3,744	24,00	0,00
19.02.19	66,37	53,12	13,25	276,145	278,165	-2,021	6,0	4,0	3,669	24,00	0,00
20.02.19	66,32	52,87	13,45	274,922	276,998	-2,076	6,0	4,0	3,709	24,00	0,00
21.02.19	66,13	52,60	13,54	274,936	276,976	-2,040	6,0	4,0	3,732	24,00	0,00
22.02.19	65,86	52,80	13,06	276,324	278,441	-2,117	6,0	4,0	3,620	24,00	0,00
23.02.19	66,70	53,18	13,52	276,055	278,208	-2,154	6,0	4,0	3,743	24,00	0,00
24.02.19	66,26	52,53	13,73	275,780	277,689	-1,909	6,0	4,0	3,797	24,00	0,00
25.02.19	66,71	53,14	13,57	275,949	277,887	-1,938	6,0	4,0	3,757	24,00	0,00
26.02.19	66,24	52,99	13,25	250,595	252,447	-1,853	6,0	4,0	3,330	21,77	2,23
27.02.19	66,75	53,20	13,54	276,625	278,645	-2,019	6,0	4,0	3,758	24,00	0,00
28.02.19	66,93	53,69	13,24	277,783	279,950	-2,167	6,0	4,0	3,690	24,00	0,00
01.03.19	65,64	52,80	12,85	276,597	278,495	-1,897	6,0	4,0	3,564	24,00	0,00
02.03.19	65,99	53,11	12,89	277,756	279,840	-2,083	6,0	4,0	3,591	24,00	0,00
03.03.19	66,08	53,13	12,94	277,204	279,337	-2,133	6,0	4,0	3,599	24,00	0,00
04.03.19	66,64	53,45	13,19	275,594	277,636	-2,042	6,0	4,0	3,647	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.
05.03.19	66,04	52,77	13,27	275,554	277,638	-2,084	6,0	4,0	3,669	24,00	0,00
06.03.19	65,74	52,56	13,18	276,291	278,293	-2,002	6,0	4,0	3,652	24,00	0,00
07.03.19	66,62	53,45	13,17	277,798	279,812	-2,013	6,0	4,0	3,669	24,00	0,00
08.03.19	65,98	52,93	13,05	277,707	279,815	-2,107	6,0	4,0	3,636	24,00	0,00
09.03.19	65,66	52,46	13,20	278,341	280,410	-2,069	6,0	4,0	3,686	24,00	0,00
10.03.19	66,26	53,21	13,05	277,154	279,334	-2,180	6,0	4,0	3,628	24,00	0,00
11.03.19	66,78	53,72	13,05	277,177	279,384	-2,207	6,0	4,0	3,630	24,00	0,00
12.03.19	66,06	53,37	12,68	279,365	281,471	-2,106	6,0	4,0	3,555	24,00	0,00
13.03.19	65,60	52,50	13,10	228,720	230,044	-1,325	6,0	4,0	3,006	19,77	4,23
14.03.19	65,34	52,32	13,02	270,371	272,727	-2,357	6,0	4,0	3,531	24,00	0,00
15.03.19	65,46	52,46	13,00	276,276	278,577	-2,301	6,0	4,0	3,602	24,00	0,00
16.03.19	66,29	52,69	13,60	269,497	272,147	-2,650	6,0	4,0	3,676	24,00	0,00
17.03.19	65,36	52,13	13,24	274,136	276,561	-2,425	6,0	4,0	3,640	24,00	0,00
18.03.19	66,49	52,88	13,60	269,679	272,378	-2,699	6,0	4,0	3,679	24,00	0,00
19.03.19	66,01	53,01	13,00	272,739	275,475	-2,736	6,0	4,0	3,557	24,00	0,00
20.03.19	66,07	52,89	13,18	275,748	278,581	-2,833	6,0	4,0	3,646	24,00	0,00
21.03.19	65,01	52,78	12,24	284,385	287,093	-2,707	6,0	4,0	3,491	24,00	0,00
22.03.19	65,63	53,19	12,44	281,602	284,394	-2,793	6,0	4,0	3,515	24,00	0,00
23.03.19	65,62	53,34	12,27	280,855	283,691	-2,836	6,0	4,0	3,459	24,00	0,00
24.03.19	66,04	53,27	12,76	281,399	284,319	-2,919	6,0	4,0	3,603	24,00	0,00
25.03.19	65,89	53,49	12,40	284,718	287,752	-3,034	6,0	4,0	3,542	24,00	0,00
26.03.19	65,30	53,22	12,08	286,863	289,728	-2,865	6,0	4,0	3,477	24,00	0,00
27.03.19	65,29	53,27	12,02	289,991	292,811	-2,820	6,0	4,0	3,496	24,00	0,00
28.03.19	64,51	53,20	11,30	297,253	299,956	-2,703	6,0	4,0	3,371	24,00	0,00
29.03.19	65,74	53,59	12,15	283,277	286,136	-2,859	6,0	4,0	3,453	24,00	0,00
30.03.19	65,78	53,22	12,56	283,652	286,373	-2,721	6,0	4,0	3,573	24,00	0,00
31.03.19	65,62	53,09	12,53	288,528	291,094	-2,565	6,0	4,0	3,626	24,00	0,00
01.04.19	65,52	53,29	12,24	280,786	283,454	-2,668	6,0	4,0	3,447	24,00	0,00
02.04.19	64,59	52,88	11,71	288,325	290,804	-2,479	6,0	4,0	3,389	24,00	0,00
03.04.19	64,32	52,31	12,01	282,156	284,463	-2,307	6,0	4,0	3,401	24,00	0,00
04.04.19	64,03	52,12	11,91	276,802	279,055	-2,252	6,0	4,0	3,308	24,00	0,00
05.04.19	64,39	52,54	11,86	279,181	281,583	-2,402	6,0	4,0	3,322	24,00	0,00
06.04.19	64,17	52,67	11,50	282,666	285,009	-2,343	6,0	4,0	3,262	24,00	0,00
07.04.19	63,83	52,42	11,41	285,067	287,339	-2,272	6,0	4,0	3,264	24,00	0,00
08.04.19	62,00	51,46	10,54	285,681	287,964	-2,283	6,0	4,0	3,023	24,00	0,00
09.04.19	61,64	51,24	10,40	287,192	289,420	-2,227	6,0	4,0	2,997	24,00	0,00
10.04.19	61,72	51,22	10,50	289,157	291,415	-2,258	6,0	4,0	3,047	24,00	0,00
11.04.19	62,17	51,93	10,24	290,657	292,958	-2,301	6,0	4,0	2,987	24,00	0,00
12.04.19	61,24	51,64	9,60	294,496	296,851	-2,355	6,0	4,0	2,839	24,00	0,00
13.04.19	61,63	51,60	10,03	294,805	297,156	-2,351	6,0	4,0	2,969	24,00	0,00
14.04.19	60,81	50,69	10,12	295,575	297,691	-2,116	6,0	4,0	3,001	24,00	0,00
15.04.19	61,64	50,93	10,71	287,800	290,007	-2,208	6,0	4,0	3,094	24,00	0,00
16.04.19	61,12	50,32	10,80	281,571	283,662	-2,091	6,0	4,0	3,050	24,00	0,00
17.04.19	61,72	50,40	11,31	281,560	283,660	-2,100	6,0	4,0	3,196	24,00	0,00
18.04.19	61,85	50,58	11,27	283,245	285,316	-2,071	6,0	4,0	3,203	24,00	0,00
19.04.19	61,74	50,66	11,08	284,521	286,678	-2,157	6,0	4,0	3,163	24,00	0,00
20.04.19	60,91	50,26	10,65	288,335	290,437	-2,102	6,0	4,0	3,082	24,00	0,00
21.04.19	61,57	50,72	10,85	288,110	290,326	-2,217	6,0	4,0	3,137	24,00	0,00
22.04.19	61,18	51,08	10,11	292,968	295,201	-2,232	6,0	4,0	2,972	24,00	0,00
23.04.19	61,48	51,46	10,02	297,968	300,222	-2,254	6,0	4,0	2,997	24,00	0,00
24.04.19	61,06	51,03	10,04	291,461	293,583	-2,122	6,0	4,0	2,937	24,00	0,00
25.04.19	61,05	50,35	10,70	271,739	274,028	-2,288	6,0	4,0	2,918	23,00	1,00
26.04.19	61,61	50,89	10,72	286,835	289,697	-2,861	6,0	4,0	3,086	24,00	0,00
27.04.19	61,82	50,77	11,04	287,938	290,746	-2,808	6,0	4,0	3,191	24,00	0,00
28.04.19	61,48	50,97	10,51	287,825	290,573	-2,748	6,0	4,0	3,037	24,00	0,00
29.04.19	61,99	51,09	10,90	284,839	287,540	-2,701	6,0	4,0	3,115	24,00	0,00
30.04.19	61,14	50,49	10,65	283,438	286,212	-2,774	6,0	4,0	3,031	24,00	0,00
01.05.19	60,04	49,96	10,08	286,369	289,161	-2,791	6,0	4,0	2,898	24,00	0,00
02.05.19	59,36	49,51	9,85	286,088	288,855	-2,767	6,0	4,0	2,828	24,00	0,00
03.05.19	60,22	50,28	9,94	285,902	288,701	-2,799	6,0	4,0	2,852	24,00	0,00
04.05.19	59,96	50,61	9,36	289,349	292,157	-2,808	6,0	4,0	2,719	24,00	0,00
05.05.19	59,28	50,38	8,91	291,756	294,641	-2,885	6,0	4,0	2,609	24,00	0,00
06.05.19	60,16	52,38	7,79	336,288	339,641	-3,353	6,0	4,0	2,631	24,00	0,00
07.05.19	59,80	54,88	4,91	245,223	247,824	-2,601	6,0	4,0	1,215	24,00	0,00
08.05.19	65,96	61,39	4,57	80,051	81,022	-0,971	6,0	4,0	0,369	21,12	2,88
09.05.19	60,22	57,07	3,15	103,703	104,924	-1,221	6,0	4,0	0,331	19,75	4,25
10.05.19	60,92	57,43	3,49	109,987	111,293	-1,306	6,0	4,0	0,388	20,78	3,22
11.05.19	60,50	57,67	2,83	121,628	123,037	-1,408	6,0	4,0	0,350	20,52	3,48
12.05.19	61,81	58,40	3,41	126,142	127,608	-1,466	6,0	4,0	0,435	21,38	2,62
13.05.19	60,43	57,38	3,05	119,398	120,787	-1,389	6,0	4,0	0,369	21,13	2,87
14.05.19	63,09	58,86	4,23	113,631	114,971	-1,340	6,0	4,0	0,485	22,15	1,85
15.05.19	56,52	55,79	0,73	26,388	26,686	-0,298	6,0	4,0	0,020	3,93	20,07
16.05.19	21,69	20,41	1,28	0,000	0,000	0,000	6,0	4,0	0,000	0,00	24,00
17.05.19	20,46	19,56	0,90	0,000	0,000	0,000	6,0	4,0	0,000	0,00	24,00

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	T ₁	T ₂	ΔT	G ₁	G ₂	ΔG	P ₁	P ₂	Q _п	штатное	нештат.
18.05.19	19,27	18,47	0,81	0,000	0,000	0,000	6,0	4,0	0,000	0,00	24,00
19.05.19	18,48	17,74	0,74	0,000	0,000	0,000	6,0	4,0	0,000	0,00	24,00
20.05.19	17,84	17,16	0,68	0,000	0,000	0,000	6,0	4,0	0,000	0,00	24,00
21.05.19	17,33	16,71	0,62	0,000	0,000	0,000	6,0	4,0	0,000	0,00	24,00
22.05.19	17,13	16,52	0,61	0,000	0,000	0,000	6,0	4,0	0,000	0,00	24,00
23.05.19	17,12	16,56	0,56	0,000	0,000	0,000	6,0	4,0	0,000	0,00	24,00
24.05.19	17,01	16,50	0,51	0,000	0,000	0,000	6,0	4,0	0,000	0,00	24,00
25.05.19	16,51	15,96	0,55	0,000	0,000	0,000	6,0	4,0	0,000	0,00	24,00
26.05.19	16,27	15,74	0,53	0,000	0,000	0,000	6,0	4,0	0,000	0,00	24,00
27.05.19	16,33	15,86	0,47	0,000	0,000	0,000	6,0	4,0	0,000	0,00	24,00
28.05.19	16,26	15,71	0,55	0,000	0,000	0,000	6,0	4,0	0,000	0,00	24,00
29.05.19	13,43	13,40	0,02	42,005	42,536	-0,531	6,0	4,0	0,003	7,98	16,02
30.05.19	10,34	10,42	-0,08	54,681	55,307	-0,625	6,0	4,0	-0,002	9,42	14,58
31.05.19	26,09	25,44	0,65	101,042	101,912	-0,871	6,0	4,0	0,070	14,30	9,70
01.06.19	57,12	54,82	2,30	152,032	153,713	-1,681	6,0	4,0	0,356	23,50	0,50
02.06.19	56,35	52,77	3,58	108,102	109,280	-1,179	6,0	4,0	0,391	23,23	0,77
03.06.19	60,74	57,53	3,20	103,146	104,322	-1,176	6,0	4,0	0,334	19,80	4,20
04.06.19	62,50	59,27	3,23	118,188	119,576	-1,389	6,0	4,0	0,386	23,77	0,23
05.06.19	63,36	59,10	4,26	88,256	89,292	-1,036	6,0	4,0	0,379	21,70	2,30
06.06.19	63,60	60,37	3,23	122,546	124,006	-1,460	6,0	4,0	0,401	23,63	0,37
07.06.19	61,62	58,84	2,78	116,227	117,585	-1,357	6,0	4,0	0,328	23,90	0,10
08.06.19	61,38	57,92	3,46	110,401	111,643	-1,242	6,0	4,0	0,386	24,00	0,00
09.06.19	61,91	58,24	3,67	108,473	109,696	-1,224	6,0	4,0	0,402	24,00	0,00
10.06.19	63,10	58,51	4,58	81,936	82,901	-0,965	6,0	4,0	0,379	22,68	1,32
11.06.19	61,12	57,05	4,08	76,349	77,268	-0,918	6,0	4,0	0,314	18,73	5,27
12.06.19	62,06	56,89	5,17	71,425	72,279	-0,854	6,0	4,0	0,372	19,10	4,90
13.06.19	63,06	59,11	3,95	69,007	69,704	-0,697	6,0	4,0	0,275	18,47	5,53
14.06.19	63,38	58,25	5,13	66,392	67,185	-0,793	6,0	4,0	0,343	18,97	5,03
15.06.19	63,37	57,96	5,41	61,768	62,508	-0,741	6,0	4,0	0,337	18,17	5,83
16.06.19	61,53	56,46	5,06	81,891	82,862	-0,972	6,0	4,0	0,418	19,75	4,25
17.06.19	62,60	57,56	5,04	75,111	75,985	-0,874	6,0	4,0	0,382	20,30	3,70
18.06.19	62,08	56,86	5,22	74,020	74,897	-0,876	6,0	4,0	0,389	20,00	4,00
19.06.19	61,21	56,55	4,66	73,860	73,655	0,205	6,0	4,0	0,347	19,48	4,52
20.06.19	61,54	56,80	4,74	75,931	76,791	-0,860	6,0	4,0	0,363	19,98	4,02
21.06.19	63,29	58,74	4,55	72,656	73,504	-0,848	6,0	4,0	0,334	19,78	4,22
22.06.19	60,28	58,47	1,82	121,728	123,090	-1,361	6,0	4,0	0,226	22,32	1,68
23.06.19	62,86	58,18	4,68	104,468	105,704	-1,237	6,0	4,0	0,493	23,43	0,57
24.06.19	62,00	57,46	4,54	87,491	88,510	-1,019	6,0	4,0	0,401	21,40	2,60
25.06.19	62,27	58,58	3,70	95,715	96,801	-1,086	6,0	4,0	0,358	20,48	3,52
26.06.19	68,33	61,91	6,42	53,350	53,967	-0,617	6,0	4,0	0,345	19,83	4,17
27.06.19	62,48	58,51	3,97	81,484	82,079	-0,594	6,0	4,0	0,326	18,65	5,35
28.06.19	65,49	61,78	3,71	87,412	87,810	-0,398	6,0	4,0	0,328	21,12	2,88
29.06.19	65,92	60,94	4,98	72,111	72,934	-0,823	6,0	4,0	0,362	23,02	0,98
30.06.19	60,81	56,25	4,55	92,638	93,577	-0,939	6,0	4,0	0,425	19,97	4,03
01.07.19	66,79	58,19	8,60	52,171	52,796	-0,625	6,0	4,0	0,451	21,53	2,47
02.07.19	61,78	57,88	3,90	85,983	86,920	-0,936	6,0	4,0	0,339	19,72	4,28
03.07.19	70,09	57,42	12,68	37,529	37,975	-0,446	6,0	4,0	0,477	20,68	3,32
04.07.19	62,06	57,57	4,49	84,087	85,032	-0,944	6,0	4,0	0,381	20,07	3,93
05.07.19	67,47	61,49	5,97	54,119	54,732	-0,613	6,0	4,0	0,326	20,60	3,40
06.07.19	62,26	57,75	4,50	81,443	82,368	-0,925	6,0	4,0	0,370	20,90	3,10
07.07.19	71,08	61,19	9,89	37,365	37,778	-0,413	6,0	4,0	0,371	18,13	5,87
08.07.19	62,17	57,09	5,08	64,960	65,687	-0,727	6,0	4,0	0,333	18,90	5,10
09.07.19	63,82	57,59	6,24	58,815	59,542	-0,727	6,0	4,0	0,369	18,85	5,15
10.07.19	60,81	56,32	4,50	69,241	70,098	-0,857	6,0	4,0	0,314	19,67	4,33
11.07.19	60,23	55,13	5,10	69,458	70,342	-0,883	6,0	4,0	0,357	19,92	4,08
12.07.19	61,46	56,80	4,66	70,889	71,776	-0,887	6,0	4,0	0,333	19,72	4,28
13.07.19	61,79	57,29	4,50	67,144	67,981	-0,837	6,0	4,0	0,305	19,52	4,48
14.07.19	61,99	56,84	5,15	66,049	66,881	-0,832	6,0	4,0	0,343	19,07	4,93
15.07.19	62,94	56,82	6,12	62,705	63,493	-0,787	6,0	4,0	0,386	19,42	4,58
16.07.19	54,83	50,58	4,25	65,754	66,536	-0,783	6,0	4,0	0,282	18,73	5,27
17.07.19	32,35	31,22	1,13	100,237	101,261	-1,024	6,0	4,0	0,118	24,00	0,00
18.07.19	39,31	37,28	2,03	105,643	106,727	-1,084	6,0	4,0	0,219	24,00	0,00
19.07.19	60,75	57,13	3,62	85,555	86,597	-1,042	6,0	4,0	0,313	21,90	2,10
20.07.19	60,52	56,31	4,21	67,349	68,180	-0,832	6,0	4,0	0,286	18,57	5,43
21.07.19	58,80	54,80	4,00	85,150	86,216	-1,067	6,0	4,0	0,344	18,92	5,08
22.07.19	61,42	57,28	4,14	75,162	76,120	-0,958	6,0	4,0	0,314	20,78	3,22
23.07.19	60,62	56,23	4,39	72,748	73,684	-0,936	6,0	4,0	0,322	19,62	4,38
24.07.19	60,78	56,29	4,49	67,014	67,899	-0,885	6,0	4,0	0,304	19,57	4,43
25.07.19	60,92	56,45	4,47	64,517	65,332	-0,814	6,0	4,0	0,291	18,75	5,25
26.07.19	59,96	55,98	3,98	72,753	73,724	-0,970	6,0	4,0	0,293	19,57	4,43
27.07.19	61,03	56,12	4,91	64,656	65,517	-0,861	6,0	4,0	0,320	18,48	5,52
28.07.19	61,17	56,60	4,57	68,715	69,597	-0,882	6,0	4,0	0,317	19,18	4,82
29.07.19	60,76	56,78	3,97	81,208	82,249	-1,042	6,0	4,0	0,326	19,97	4,03
30.07.19	62,91	59,31	3,61	31,958	32,389	-0,432	6,0	4,0	0,117	8,95	15,05

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.
31.07.19	27,31	33,02	-5,72	0,000	0,000	0,000	6,0	4,0	0,000	0,00	24,00
01.08.19	20,88	23,99	-3,11	0,000	0,000	0,000	6,0	4,0	0,000	0,00	24,00
02.08.19	24,05	23,23	0,82	78,051	78,572	-0,521	6,0	4,0	0,067	15,30	8,70
03.08.19	62,13	56,25	5,88	61,916	62,714	-0,798	6,0	4,0	0,367	21,08	2,92
04.08.19	60,69	55,29	5,40	62,610	63,427	-0,818	6,0	4,0	0,340	18,85	5,15
05.08.19	60,99	56,52	4,47	69,796	70,691	-0,895	6,0	4,0	0,315	19,83	4,17
06.08.19	60,96	56,45	4,51	74,319	75,309	-0,990	6,0	4,0	0,338	19,53	4,47
07.08.19	62,94	57,70	5,23	60,296	61,109	-0,813	6,0	4,0	0,318	19,23	4,77
08.08.19	63,42	57,20	6,22	30,929	29,601	1,328	6,0	4,0	0,194	10,55	13,45
09.08.19	62,03	56,70	5,32	67,183	67,422	-0,239	6,0	4,0	0,360	19,52	4,48
10.08.19	62,31	56,88	5,43	64,954	65,168	-0,214	6,0	4,0	0,355	19,10	4,90
11.08.19	61,45	56,32	5,13	71,446	71,712	-0,267	6,0	4,0	0,370	19,53	4,47
12.08.19	61,85	56,47	5,38	66,725	66,964	-0,238	6,0	4,0	0,362	19,25	4,75
13.08.19	59,33	54,68	4,65	67,636	67,762	-0,126	6,0	4,0	0,317	17,87	6,13
14.08.19	61,90	56,57	5,33	68,065	68,275	-0,210	6,0	4,0	0,366	19,07	4,93
15.08.19	63,57	58,16	5,41	58,651	58,844	-0,193	6,0	4,0	0,320	18,20	5,80
16.08.19	61,74	55,81	5,93	62,430	62,606	-0,176	6,0	4,0	0,373	18,25	5,75
17.08.19	61,31	56,13	5,18	63,331	63,509	-0,178	6,0	4,0	0,331	18,13	5,87
18.08.19	61,29	55,76	5,53	71,324	71,576	-0,252	6,0	4,0	0,397	19,27	4,73
19.08.19	64,06	58,64	5,42	60,034	60,195	-0,161	6,0	4,0	0,328	19,35	4,65
20.08.19	62,69	57,29	5,40	56,878	56,995	-0,117	6,0	4,0	0,310	17,63	6,37
21.08.19	61,48	56,19	5,29	63,909	64,075	-0,165	6,0	4,0	0,341	19,27	4,73
22.08.19	63,48	57,67	5,81	56,681	56,822	-0,141	6,0	4,0	0,332	18,05	5,95
23.08.19	61,60	56,73	4,87	67,417	67,320	0,097	6,0	4,0	0,331	19,40	4,60
24.08.19	62,33	57,39	4,95	62,945	63,173	-0,228	6,0	4,0	0,314	18,42	5,58
25.08.19	63,20	56,93	6,26	63,087	63,336	-0,249	6,0	4,0	0,398	18,53	5,47
26.08.19	62,00	56,48	5,51	69,858	70,064	-0,206	6,0	4,0	0,388	20,02	3,98
27.08.19	61,46	57,14	4,32	73,174	73,396	-0,222	6,0	4,0	0,319	20,10	3,90
28.08.19	63,34	57,33	6,01	59,218	59,458	-0,240	6,0	4,0	0,358	18,92	5,08
29.08.19	60,92	56,03	4,89	71,781	72,331	-0,551	6,0	4,0	0,354	19,37	4,63
30.08.19	62,23	56,08	6,15	67,977	68,458	-0,480	6,0	4,0	0,421	19,90	4,10
31.08.19	62,03	57,05	4,98	78,007	78,541	-0,534	6,0	4,0	0,391	19,78	4,22
01.09.19	71,97	61,61	10,36	38,421	38,719	-0,298	6,0	4,0	0,400	18,32	5,68
02.09.19	63,05	58,68	4,37	80,454	81,050	-0,596	6,0	4,0	0,355	20,28	3,72
03.09.19	71,86	60,20	11,66	40,325	40,662	-0,336	6,0	4,0	0,472	19,47	4,53
04.09.19	75,91	61,97	13,94	10,144	10,225	-0,081	6,0	4,0	0,142	6,02	17,98
05.09.19	-	-	-	-	-	-	-	-	-	-	-
06.09.19	61,70	56,43	5,27	47,229	47,575	-0,346	6,0	4,0	0,251	12,75	11,25
07.09.19	66,20	58,72	7,48	51,558	51,941	-0,383	6,0	4,0	0,388	18,65	5,35
08.09.19	73,99	59,53	14,47	31,074	31,317	-0,243	6,0	4,0	0,451	17,30	6,70
09.09.19	75,34	62,68	12,67	28,124	28,306	-0,182	6,0	4,0	0,358	16,05	7,95
10.09.19	62,10	56,48	5,63	69,660	70,202	-0,542	6,0	4,0	0,395	19,42	4,58
11.09.19	73,67	62,49	11,18	33,260	33,479	-0,219	6,0	4,0	0,373	17,50	6,50
12.09.19	53,87	48,28	5,59	62,417	62,788	-0,371	6,0	4,0	0,351	18,97	5,03
13.09.19	43,15	40,65	2,50	109,573	110,138	-0,566	6,0	4,0	0,278	24,00	0,00
14.09.19	74,84	64,23	10,61	36,853	37,155	-0,302	6,0	4,0	0,393	17,27	6,73
15.09.19	61,76	56,95	4,81	87,475	88,175	-0,700	6,0	4,0	0,424	20,23	3,77
16.09.19	72,72	61,69	11,03	39,130	39,455	-0,325	6,0	4,0	0,433	18,82	5,18
17.09.19	71,70	59,58	12,13	36,119	36,300	-0,181	6,0	4,0	0,440	17,52	6,48
18.09.19	63,38	52,11	11,27	138,065	139,560	-1,494	6,0	4,0	1,561	19,95	4,05
19.09.19	61,64	49,83	11,81	223,081	225,503	-2,422	6,0	4,0	2,643	24,00	0,00
20.09.19	61,99	48,43	13,57	196,539	198,543	-2,004	6,0	4,0	2,673	24,00	0,00
21.09.19	60,73	47,44	13,28	199,659	201,632	-1,973	6,0	4,0	2,660	24,00	0,00
22.09.19	61,27	47,88	13,40	199,838	201,805	-1,967	6,0	4,0	2,685	24,00	0,00
23.09.19	59,91	46,55	13,35	190,772	192,590	-1,818	6,0	4,0	2,554	24,00	0,00
24.09.19	61,75	47,62	14,13	189,835	191,721	-1,886	6,0	4,0	2,689	24,00	0,00
25.09.19	60,95	46,73	14,23	193,460	195,375	-1,914	6,0	4,0	2,759	24,00	0,00
26.09.19	46,40	36,63	9,77	180,835	182,562	-1,727	6,0	4,0	1,774	24,00	0,00
27.09.19	60,66	46,31	14,35	195,046	197,164	-2,118	6,0	4,0	2,806	24,00	0,00
28.09.19	61,14	47,06	14,08	191,833	193,866	-2,034	6,0	4,0	2,708	24,00	0,00
29.09.19	61,29	46,41	14,87	188,039	190,001	-1,962	6,0	4,0	2,803	24,00	0,00
30.09.19	61,92	47,63	14,29	190,312	192,284	-1,972	6,0	4,0	2,726	24,00	0,00
01.10.19	61,45	48,65	12,81	213,639	215,875	-2,237	6,0	4,0	2,744	24,00	0,00
02.10.19	61,45	49,56	11,90	230,700	233,099	-2,399	6,0	4,0	2,754	24,00	0,00
03.10.19	64,26	50,19	14,07	211,010	213,212	-2,202	6,0	4,0	2,976	24,00	0,00
04.10.19	66,85	50,87	15,98	198,667	200,871	-2,203	6,0	4,0	3,183	24,00	0,00
05.10.19	66,63	52,15	14,48	208,779	211,040	-2,261	6,0	4,0	3,031	24,00	0,00
06.10.19	66,73	52,46	14,27	210,407	212,716	-2,309	6,0	4,0	3,011	24,00	0,00
07.10.19	67,16	52,08	15,07	202,772	205,171	-2,399	6,0	4,0	3,065	24,00	0,00
08.10.19	67,98	52,60	15,38	202,630	205,045	-2,415	6,0	4,0	3,124	24,00	0,00
09.10.19	67,69	52,21	15,48	202,274	204,669	-2,395	6,0	4,0	3,140	24,00	0,00
10.10.19	66,32	51,50	14,81	206,401	208,710	-2,309	6,0	4,0	3,065	24,00	0,00
11.10.19	66,88	51,46	15,42	212,773	215,274	-2,501	6,0	4,0	3,290	24,00	0,00
12.10.19	68,63	52,23	16,40	204,516	207,119	-2,603	6,0	4,0	3,363	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.
13.10.19	68,05	51,93	16,12	207,718	210,320	-2,603	6,0	4,0	3,356	24,00	0,00
14.10.19	69,08	52,88	16,20	207,341	210,050	-2,709	6,0	4,0	3,368	24,00	0,00
15.10.19	68,78	52,44	16,34	212,155	214,910	-2,755	6,0	4,0	3,475	24,00	0,00
16.10.19	67,68	51,57	16,12	209,505	212,127	-2,622	6,0	4,0	3,385	24,00	0,00
17.10.19	66,33	51,55	14,78	219,541	222,171	-2,630	6,0	4,0	3,253	24,00	0,00
18.10.19	66,62	51,20	15,41	214,245	216,751	-2,507	6,0	4,0	3,311	24,00	0,00
19.10.19	66,29	50,56	15,73	212,882	215,344	-2,462	6,0	4,0	3,357	24,00	0,00
20.10.19	65,80	50,49	15,31	222,798	225,264	-2,467	6,0	4,0	3,419	24,00	0,00
21.10.19	65,70	50,47	15,22	217,326	219,853	-2,527	6,0	4,0	3,317	24,00	0,00
22.10.19	66,04	50,72	15,32	213,783	216,194	-2,412	6,0	4,0	3,284	24,00	0,00
23.10.19	66,17	50,79	15,38	213,884	216,284	-2,400	6,0	4,0	3,299	24,00	0,00
24.10.19	67,06	51,33	15,73	212,946	215,271	-2,324	6,0	4,0	3,359	24,00	0,00
25.10.19	67,24	51,39	15,85	214,234	216,722	-2,487	6,0	4,0	3,404	24,00	0,00
26.10.19	67,72	52,08	15,64	215,156	217,807	-2,650	6,0	4,0	3,373	24,00	0,00
27.10.19	67,73	51,80	15,93	210,595	213,205	-2,610	6,0	4,0	3,364	24,00	0,00
28.10.19	66,70	51,66	15,04	217,224	219,828	-2,604	6,0	4,0	3,276	24,00	0,00
29.10.19	64,30	50,69	13,61	230,570	233,018	-2,448	6,0	4,0	3,146	24,00	0,00
30.10.19	66,04	50,72	15,31	216,675	219,176	-2,501	6,0	4,0	3,326	24,00	0,00
31.10.19	65,59	50,71	14,88	222,054	224,485	-2,430	6,0	4,0	3,313	24,00	0,00
01.11.19	65,69	50,10	15,60	214,732	217,000	-2,269	6,0	4,0	3,358	24,00	0,00
02.11.19	61,86	49,11	12,75	241,164	243,657	-2,494	6,0	4,0	3,083	24,00	0,00
03.11.19	64,40	50,21	14,19	228,229	230,550	-2,321	6,0	4,0	3,247	24,00	0,00
04.11.19	64,74	50,31	14,43	227,699	230,121	-2,422	6,0	4,0	3,295	24,00	0,00
05.11.19	63,96	50,42	13,55	232,430	234,901	-2,472	6,0	4,0	3,158	24,00	0,00
06.11.19	64,99	50,28	14,72	221,278	223,495	-2,217	6,0	4,0	3,265	24,00	0,00
07.11.19	65,50	50,84	14,66	220,391	222,679	-2,288	6,0	4,0	3,240	24,00	0,00
08.11.19	64,44	50,82	13,62	234,648	237,098	-2,451	6,0	4,0	3,205	24,00	0,00
09.11.19	63,73	50,43	13,30	241,062	243,649	-2,587	6,0	4,0	3,216	24,00	0,00
10.11.19	63,61	50,15	13,45	243,365	245,987	-2,622	6,0	4,0	3,284	24,00	0,00
11.11.19	64,56	50,61	13,95	232,401	234,869	-2,468	6,0	4,0	3,252	24,00	0,00
12.11.19	64,73	50,80	13,93	233,312	235,776	-2,465	6,0	4,0	3,259	24,00	0,00
13.11.19	64,19	50,54	13,65	235,376	237,986	-2,610	6,0	4,0	3,221	24,00	0,00
14.11.19	65,78	49,52	16,26	215,680	218,161	-2,481	6,0	4,0	3,515	24,00	0,00
15.11.19	67,69	49,49	18,20	199,520	201,952	-2,431	6,0	4,0	3,639	24,00	0,00
16.11.19	68,75	50,09	18,66	198,091	200,607	-2,516	6,0	4,0	3,704	24,00	0,00
17.11.19	68,92	50,46	18,47	200,043	202,468	-2,425	6,0	4,0	3,702	24,00	0,00
18.11.19	69,21	50,63	18,57	198,863	201,370	-2,506	6,0	4,0	3,702	24,00	0,00
19.11.19	76,72	52,94	23,78	190,393	193,175	-2,782	6,0	4,0	4,537	24,00	0,00
20.11.19	76,42	52,69	23,73	189,949	192,632	-2,683	6,0	4,0	4,517	24,00	0,00
21.11.19	71,28	50,15	21,13	191,296	193,732	-2,437	6,0	4,0	4,050	24,00	0,00
22.11.19	67,96	49,00	18,95	195,174	197,432	-2,258	6,0	4,0	3,707	24,00	0,00
23.11.19	68,05	48,86	19,20	193,861	196,118	-2,257	6,0	4,0	3,729	24,00	0,00
24.11.19	68,28	49,20	19,08	195,375	197,682	-2,307	6,0	4,0	3,735	24,00	0,00
25.11.19	68,30	49,16	19,13	194,037	196,450	-2,413	6,0	4,0	3,720	24,00	0,00
26.11.19	68,09	49,01	19,08	190,983	193,339	-2,356	6,0	4,0	3,652	24,00	0,00
27.11.19	67,44	48,52	18,92	194,230	196,289	-2,059	6,0	4,0	3,683	24,00	0,00
28.11.19	68,12	49,24	18,88	192,304	194,631	-2,327	6,0	4,0	3,639	24,00	0,00
29.11.19	68,80	49,13	19,67	192,890	195,146	-2,256	6,0	4,0	3,802	24,00	0,00
30.11.19	67,89	49,23	18,66	192,971	195,270	-2,299	6,0	4,0	3,608	24,00	0,00
01.12.19	67,23	48,44	18,79	193,813	196,115	-2,302	6,0	4,0	3,650	24,00	0,00
02.12.19	67,94	49,16	18,78	193,616	196,090	-2,474	6,0	4,0	3,644	24,00	0,00
03.12.19	68,37	49,24	19,13	191,111	193,548	-2,437	6,0	4,0	3,663	24,00	0,00
04.12.19	67,88	49,00	18,88	194,736	197,100	-2,364	6,0	4,0	3,684	24,00	0,00
05.12.19	67,70	49,09	18,61	197,169	199,571	-2,402	6,0	4,0	3,677	24,00	0,00
06.12.19	66,85	49,13	17,72	201,396	203,652	-2,256	6,0	4,0	3,576	24,00	0,00
07.12.19	68,06	49,27	18,79	194,100	196,437	-2,337	6,0	4,0	3,655	24,00	0,00
08.12.19	68,62	49,88	18,74	197,638	200,095	-2,456	6,0	4,0	3,712	24,00	0,00
09.12.19	68,35	50,20	18,15	190,905	193,364	-2,459	6,0	4,0	3,473	23,18	0,82
10.12.19	69,61	51,04	18,57	195,587	198,086	-2,499	6,0	4,0	3,640	24,00	0,00
11.12.19	70,01	51,27	18,74	196,765	199,347	-2,582	6,0	4,0	3,696	24,00	0,00
12.12.19	68,54	50,68	17,86	200,025	202,525	-2,500	6,0	4,0	3,581	24,00	0,00
13.12.19	67,55	49,72	17,83	200,619	202,971	-2,352	6,0	4,0	3,585	24,00	0,00
14.12.19	67,20	49,43	17,78	200,926	203,230	-2,303	6,0	4,0	3,580	24,00	0,00
15.12.19	66,57	49,17	17,40	203,991	206,556	-2,565	6,0	4,0	3,558	24,00	0,00
16.12.19	66,93	49,70	17,22	206,767	209,352	-2,584	6,0	4,0	3,569	24,00	0,00
17.12.19	67,15	49,93	17,21	204,682	207,209	-2,526	6,0	4,0	3,531	24,00	0,00
18.12.19	67,23	49,63	17,60	201,851	204,445	-2,594	6,0	4,0	3,560	24,00	0,00
19.12.19	67,11	50,12	16,99	206,736	209,074	-2,338	6,0	4,0	3,521	24,00	0,00
20.12.19	66,72	49,65	17,07	204,223	206,600	-2,377	6,0	4,0	3,494	24,00	0,00
21.12.19	66,30	48,87	17,42	207,477	209,879	-2,402	6,0	4,0	3,623	24,00	0,00
22.12.19	67,09	48,92	18,17	202,184	204,805	-2,621	6,0	4,0	3,681	24,00	0,00
23.12.19	66,90	49,09	17,81	204,662	207,233	-2,571	6,0	4,0	3,653	24,00	0,00
24.12.19	68,74	49,47	19,27	196,178	198,738	-2,559	6,0	4,0	3,788	24,00	0,00
25.12.19	69,10	50,19	18,91	195,482	198,040	-2,558	6,0	4,0	3,705	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		штатное	нештат.
26.12.19	68,48	49,94	18,54	196,358	198,800	-2,442	6,0	4,0	3,647	24,00	0,00
27.12.19	68,40	49,63	18,77	196,191	198,720	-2,529	6,0	4,0	3,689	24,00	0,00
28.12.19	67,28	49,19	18,09	201,212	203,875	-2,663	6,0	4,0	3,647	24,00	0,00
29.12.19	69,38	49,41	19,97	195,394	198,059	-2,665	6,0	4,0	3,910	24,00	0,00
30.12.19	75,99	52,01	23,98	188,545	191,334	-2,789	6,0	4,0	4,530	24,00	0,00
31.12.19	73,41	51,02	22,38	191,916	194,784	-2,868	6,0	4,0	4,304	24,00	0,00
Итого	62,42	51,53	10,89	65676,979	66297,573	-620,594	5,98	3,99	855,256	7801,45	934,55

Место для записи представителя PCO

Ответственный за учет тепловой энергии:

Представитель обслуживающей организации:

