

:
« »
“14” 2011 .

-18

:
13.04.2011 . .
12.04.2011 . .
12.04.2011 . .
12.04.2011 . .

1.

01 10 2011 . (.)
-18.

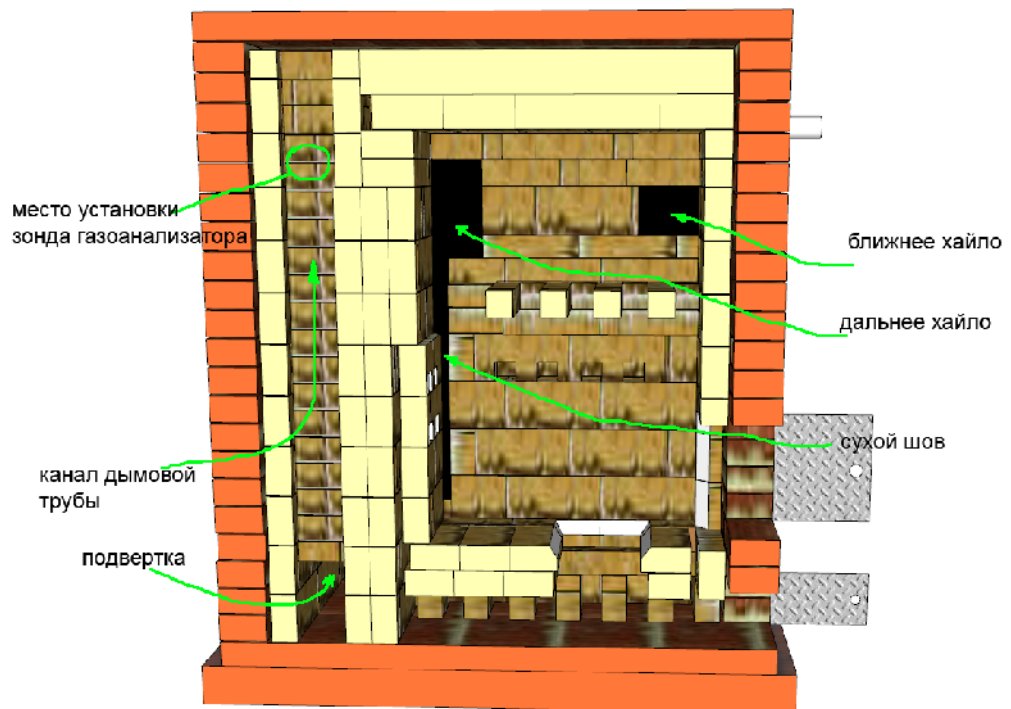
.1.

.2 3.



.1.

-18



.2.

(. .2).

(. .3).

3 , . .

2.

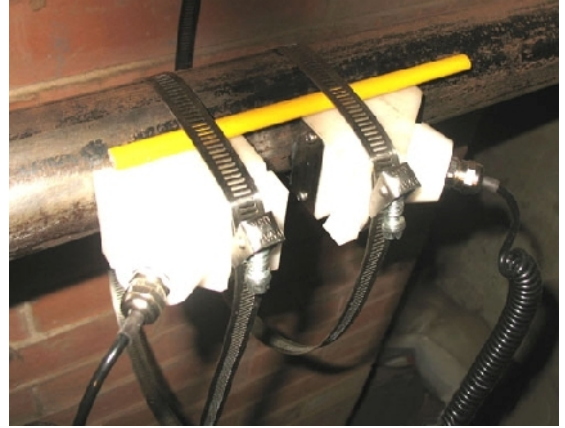
" " "

"DYNAMETERS" ()
(. .4 5).



.4.

" "



.5.

Delta 65 MRU ().
.6.



.6.

Skywatch Xplorer 2

JDC Electronic SA (. .7).



.7.

$$W = 15,2\% \left(\frac{26}{172} \right)$$

$$: 13 + 13 \text{ (3.3.1)}$$

2

25%

).

123 118

1-2

100

.8.

.9.



.8.

(

)



.9.

3.

- ;
- ;

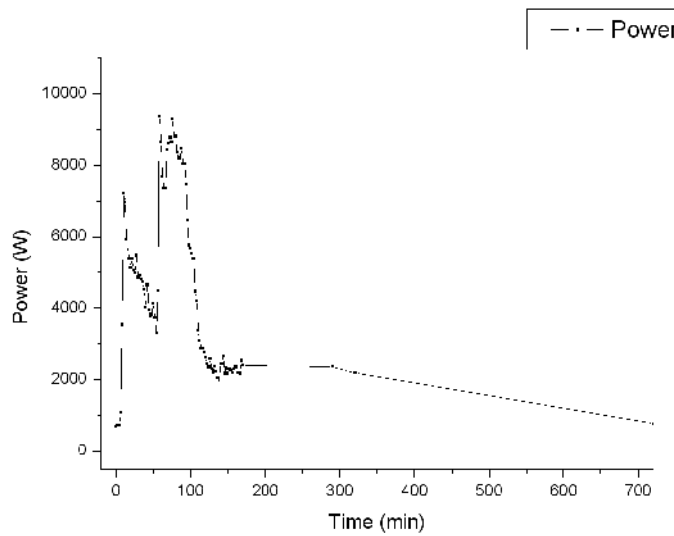
3.1.

W = v * (t₁ - t₂) / 60 ;

$$W = v * (t_1 - t_2) / 60 \tag{1}$$

(1:1).
= 3380 / (*);
v - , / ;
(t₁ - t₂) - , .

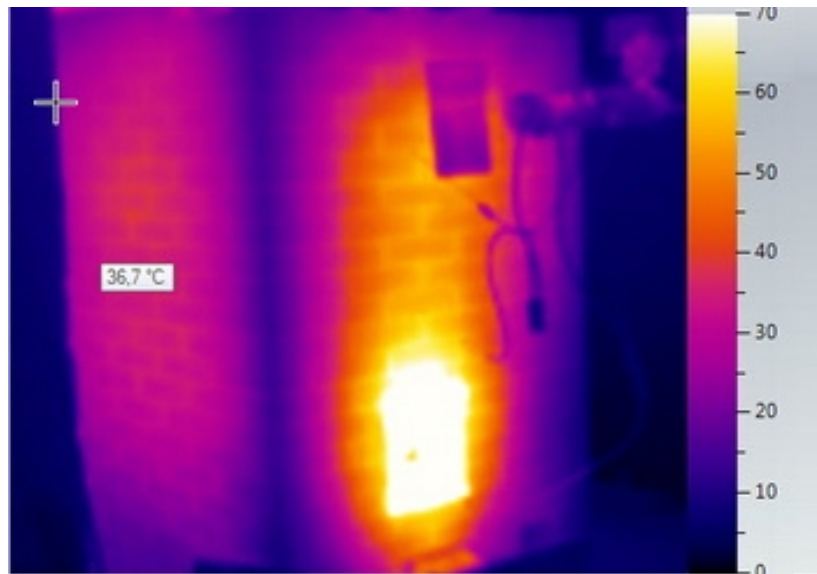
.10



.10.



.12.



.13.

37 , - 53

3.2.

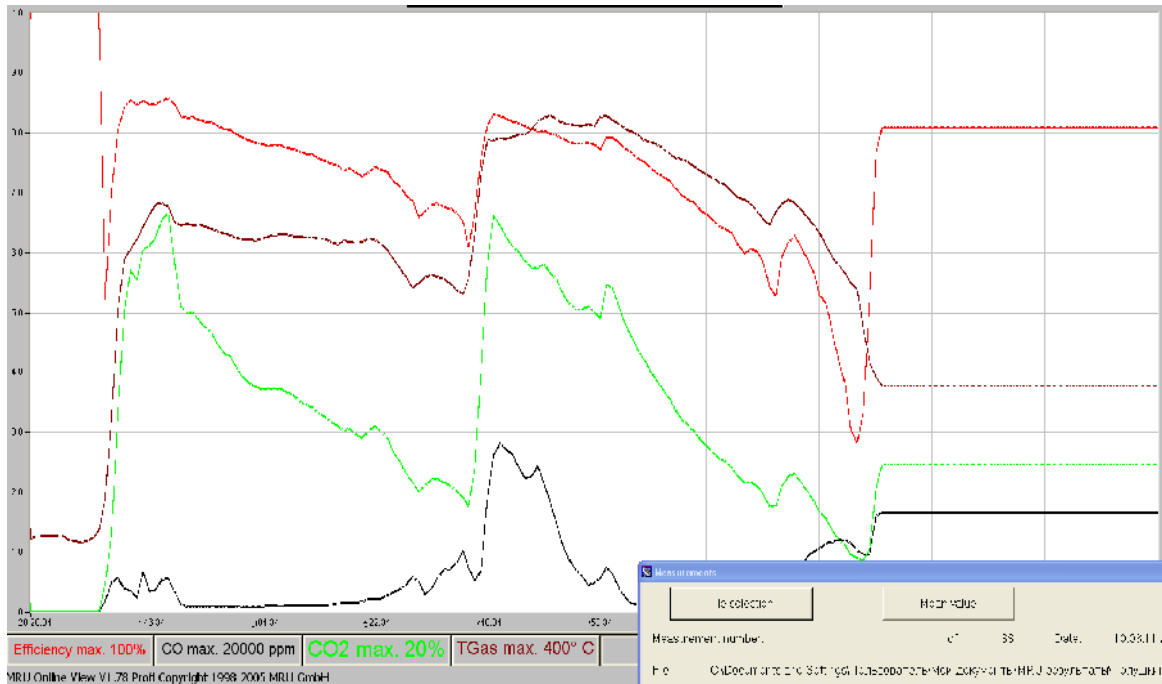
(. .6).

.12)

(.

.13).

(



.12.

-18 « ». 10 2011 .
 (= 100%),
 (= 400),
 2 (= 20%),
 (= 50 000).

Kunde :		Model :	Delta 65
Measur. :	14 date: 10.03.11 20:41:33	Fuel type :	WOOD DRY
	10 128 date: 10.03.11 22:35:32	CO2max :	20.3 %
		O2-Ref :	13 %

T-Gas :	269.5 °	CO :	1071 ppm	6587 ppm/0%
T-Amb. :	4.6 °		1338 mg/m3	1364 mg/ 13 %
Dewpoint :	42.3 °	NO :	0 ppm	0 ppm/0%
T-Boiler :	---		0 mg/m3	0 mg/ 13 %
O2 :	13.2 %	NOx :	0 ppm	0 ppm/0% 0 ppm/ 13 %
CO2 :	7.5 %		0 mg/m3	0 mg/ 13 %
Losses :	26.4 %	NO2 :	0 ppm	
Efficiency :	73.6 %	SO2 :	0 ppm	0 ppm/0%
Ex.AIR :	6.15		0 mg/m3	0 mg/ 13 %
Draft :	--- hPa	HC :	0 ppm	0 mg/m3
Oil derivat :	negativ	H2S :	0 ppm	0 mg/m3
Soot no. :	----			

.13.

10 2011.

2.

		%	2, %	-
04.03.2011	-18 "	71,4	7,0	274,3
10.03.2011	" ()	73,6	7,5	269,5
08.03.2011		68,4	6,6	291,7
05.03.2011		72,5	7,1	266,9
07.03.2011		77,0	7,7	239,7
06.03.2011		74,3	7,5	256,7

()
,
0 50%
1 ()
)
25%
2 12%,
2 3%
N 15250.

" " 07.03.2011

3.3.
3.3.1.

60 – 150 3-4
3.

	,	.,	w, %	W, %
1	812	683	18,9	15,9
2	540	462	16,9	14,4
.			17,9	15,2

w –
W –

3.3.2.

, :

$$q = 1/(1+w) * (4500 - 583 * w) [\quad / \quad]$$

$$q = 3728 \quad / \quad .$$

$$Q = M * q / 860 [\quad * \quad]$$

$$26 \quad Q = 112,7 \quad * \quad .$$

3.3.3.

$$V = 1/(1+w) * M * V^0$$

$$V = \int \frac{F(t)}{\alpha(t)} dt$$

				V _{3''}	V _{3'}	%	V _{3''}	
10.03			122	101,1	116,2	+15	332,8	2,87
08.03			120	101,1	98,7	- 2	338,1	3,43
07.03			124	101,1	105,0	+4	301,3	2,87
06.03			138	101,0	116,1	+15	345,3	2,97
05.03			150	100,9	131,0	+30	425,7	3,25
04.03			136	101,0	125,8	+25	394,0	3,13

3.3.5.

$$N(t) = \frac{F(t)}{F}$$

$$F(t) = F \left[1 + \frac{1}{\alpha(t)} \cdot \frac{\Delta V}{V^0} \right]$$

$$\Delta V = V - V^0 + 1,24 \cdot w$$

$$V^0 = V^0 -$$

$$w -$$

$$CO_{undill}^{norm}(t) = CO(t) \cdot N(t) \cdot \alpha(t)$$

6.

.6

					, ppm
10.03			122	2,87	4253
08.03			120	3,43	4593
07.03			124	2,87	4393
06.03			138	2,97	5001
05.03			150	3,25	4995
04.03			136	3,13	5086

4.

1.

« » .

/			-	,
			,	12 *
1	-18 " " ()	09.03.2011 10.03.2011	- 269,5	22,94 21,43
2		07.03.2011 06.03.2011	239,7 256,7	23,54 -

2.

3.

. 20-25%.

4.

,