SIMULATION OF MEDIA MOVEMENT PROCESS IN THE REGULAR ANGLED HEAD WITH A BAFFLE

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Key words: simulation; regular angled head with; mass-transfer; hydrodynamics

[1]

[2, 3].

[4]

[5]:

$$\frac{P_c}{h_i} = \xi_c \cdot W_c^2 \cdot \frac{\rho_c}{(2 \cdot d_c)} \quad (1)$$

$$\frac{P_c}{h_i} \text{ — } \\ / \text{ ; } \xi_c \text{ — }$$

$$\text{, } / \text{ ; } d = d \text{ , } \frac{(\Delta P_{op})}{(h_{nac})_{аксн}} \text{ , } \xi_c \text{ .}$$

$$P_{op} - lg \xi_c - lg Re_1 \text{ .}$$

$$\xi_c = 354,8 \cdot \frac{10^5}{Re_r^{1,75}} \text{ ;} \quad (2)$$

$$\xi_c = 263,0 \cdot \frac{10^4}{Re_r^{1,5}} \text{ ;} \quad (3)$$

$$\xi_c = 185,0 \cdot \frac{10^3}{Re_r^{1,85}} \text{ .} \quad (4)$$

(I)

	$V, \text{ м}^3/\text{с}$	$W_{tr}, \text{ Вт}$	Re_{tr}	$U, \text{ м}^3/(\text{с} \cdot \text{м}^2)$					
				8,5		18,2		29,1	
				$\Delta l, \text{ м}$		$\Delta l, \text{ м}$		$\Delta l, \text{ м}$	
[2]	1,28	0,046	92	396	9 318	490	11 529	517	12 165
	3,84	0,139	277	997	2 570	902	2325	847	2 183
	9,76	0,352	703	1 134	456	971	390	981	394
	11,92	0,430	859	1 347	363	1 059	285	1 043	283
[3]	3,84	0,102	156	343	1 256	351	1 286	311	1 139
	11,92	0,315	483	648	249	674	259	687	264
	20,34	0,538	824	909	120	890	117	837	110
	29,51	0,781	1 195	1 194	75	1 086	68	1 057	66
[6]	0,62	0,018	47	295	622	274	627	247	568
	1,86	0,052	141	567	123	526	126	548	131
	4,72	0,134	357	798	59	694	57	668	54
	5,76	0,163	436	1 050	36	847	33	845	34

1 — ; 2 — ; 3 — :

(2–4)

W

$$\left(\frac{\Delta P_{op}}{h_{нас}}\right)_{насче}$$

$$\left(\frac{\Delta P_{op}}{h_{нас}}\right)_{эксп}$$

:

•

$$U = 18,2 \text{ м}^3/(\text{с} \cdot \text{м}^2) -$$

+25 %,

;

$$U = 18,2 - 29,1 \cdot 3 / (2^2)$$

+9 %;

$$U = 8,5 - 29,1 \cdot 3 / (2^2) + 7 \%$$

(1).

(2),

(3),

(4).

$$\left(\frac{\Delta P_{op}}{h_{\mu ac}} \right) \text{He II} + 7 \%$$

(. . .)

1. . . 425632 24.09.80; . . . 07.02.83.
 2. . . 2094113 /
 3. . . 2229928 /
 4. //
 5. 2- 1976. – 655
 6. . . 137480 /
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