

**Table 9.2 Summary of Previous Investigations**

Parameter	Barry (1987)	Cho (1988)	Dallmeyer (1970)	Debhi (1991)	Gerstmann (1967)	Henderson (1969)
Gas	air	air	air	air, He	air	air
Vapor	steam	steam	CCL <sub>4</sub> , C <sub>6</sub> H <sub>6</sub>	steam	freon-113	steam
T <sub>mix</sub> (°C)	51.3-88.2	sat	95.0	sat	NA	NA
$\dot{m}_{air}/\dot{m}_{tot}$	0.47-0.92	0-1.4E-5	0.02-0.16	0.25-0.9	trace	0.1-0.83
v <sub>mix</sub> [m/s]	2.1-6.9	~0	1-13	~0	~0	NA
0[°]	180	0	90	90	0-90	180
P[MPa]	0.1	0.31-1.24sat		0.15-0.45	0.1	NA
ΔT[°C]	26.3-63.2	35-100	55.85	10-65	4.3-39.4	NA
Geom	plate	disk	plate	tube	plate	tube
L/D[mm]	610	137	410	3500/38	457.2	1220/29

Parameter	Kroger(1968)	Kutsuna (1987)	Legay (1985)	Robinson (1988)	Slegers (1969)	Spencer (1970)
Gas	Ar,He	air	air	air	air	N <sub>2</sub> ,CO <sub>2</sub> ,He
Vapor	potassium	steam	steam	steam	steam	freon-113
T <sub>mix</sub> [°C]	598-768	NA	85-90	sat	26.7-65.6	sat
$\dot{m}_{air}/\dot{m}_{tot}$	NA	0-0.15	0.42-0.55	0.16-0.87	0-0.01	0-0.03
v <sub>mix</sub> [m/s]	~0	2-6	4-5.3	2m/s, N/A	~0	~0
0[°]	0	180	180	90	90	90
P [MPa]	sat	NA	0.1	0.27-6.2	0.004-0.03	NA
ΔT[°C]	2.3-733	NA	5.0-15	4.0-10	1.4-20.8	NA
Geom	disk	plate	plate	disk	plate	tube
L/D[mm]	101.6	500	800	46	127	NA/NA