



(1) Tray Deck (Tray Floor)

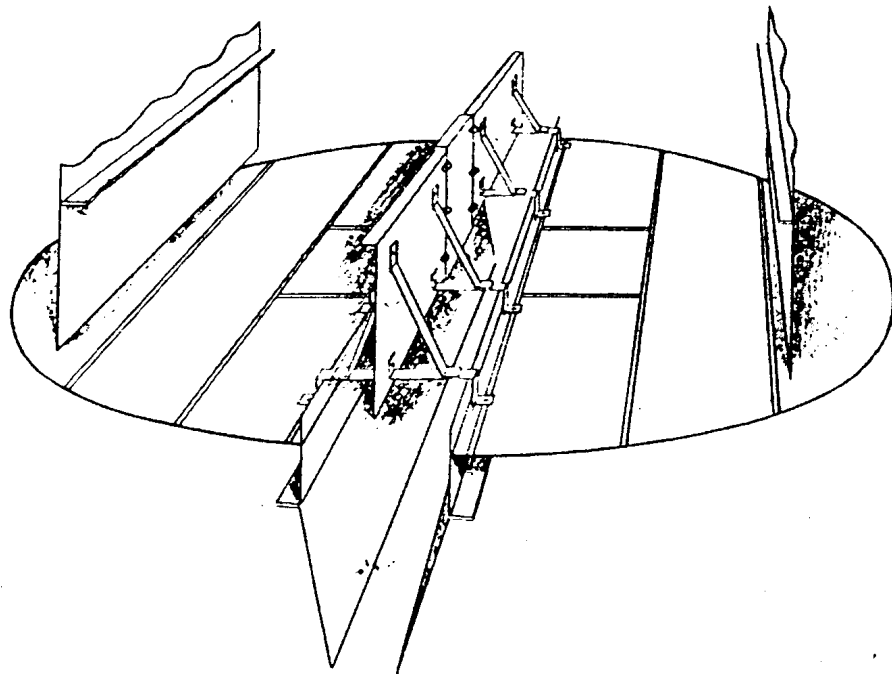
Liquid Vapor 가 Cross Flow  
Downcomer Inlet Area

Mass Transfer 가

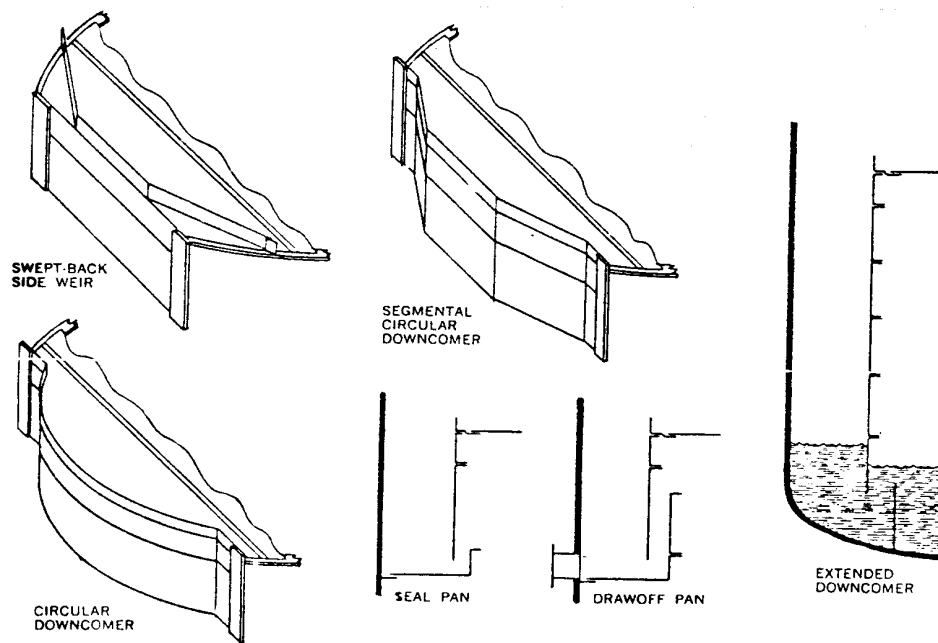
(2) Downcomer

Tray Deck Liquid  
Tray Performance

Tray Deck 가 Type



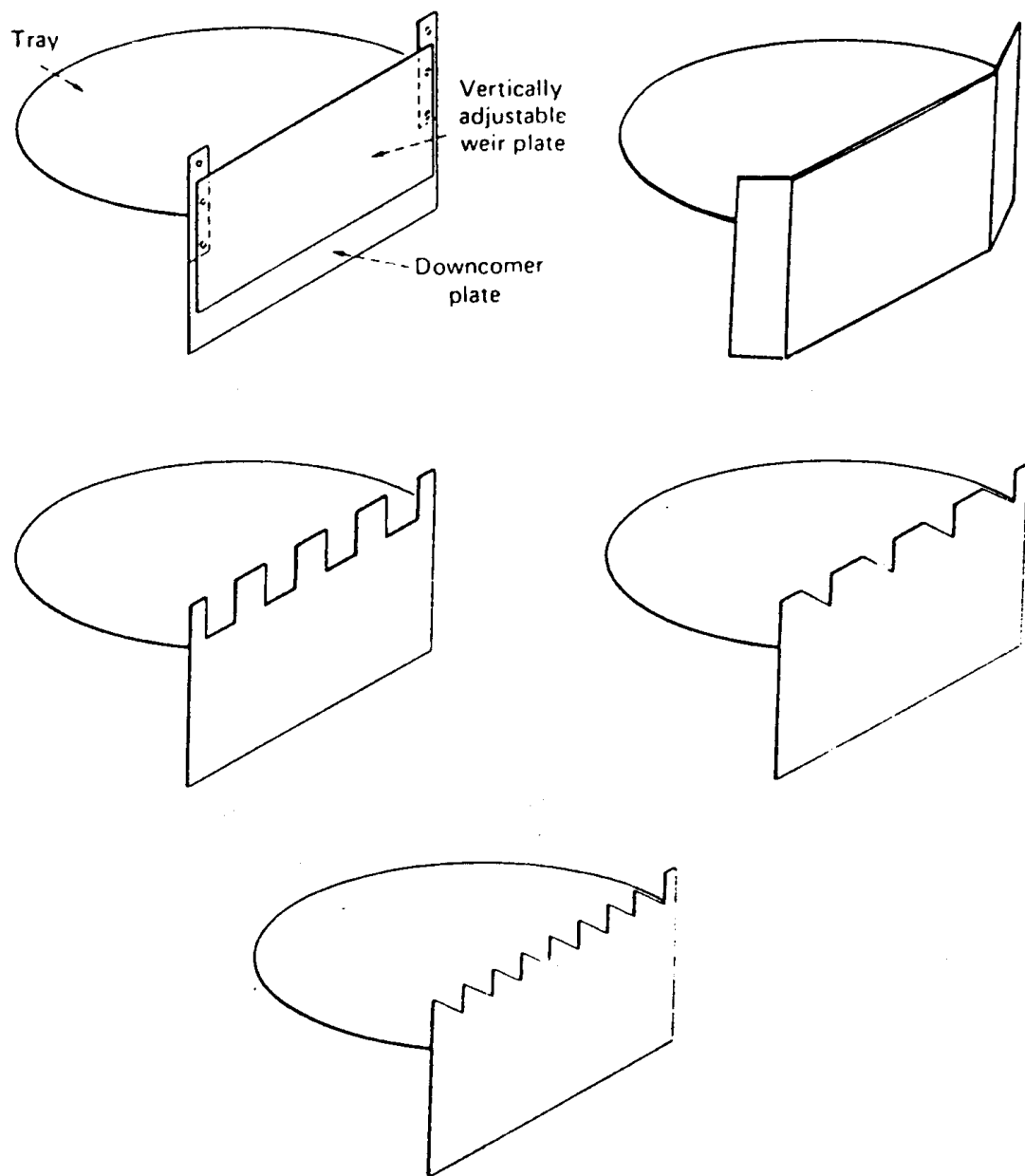
[ 10) Tray Deck



[ 11] Downcomer

### (3) Outlet Weir

Tray Deck	Downcomer	Liquid	Contact Time
	Tray	Pressure Drop	가



[ 12] Weir

(4) Inlet Weir

Downcomer  
Steady  
Sealing

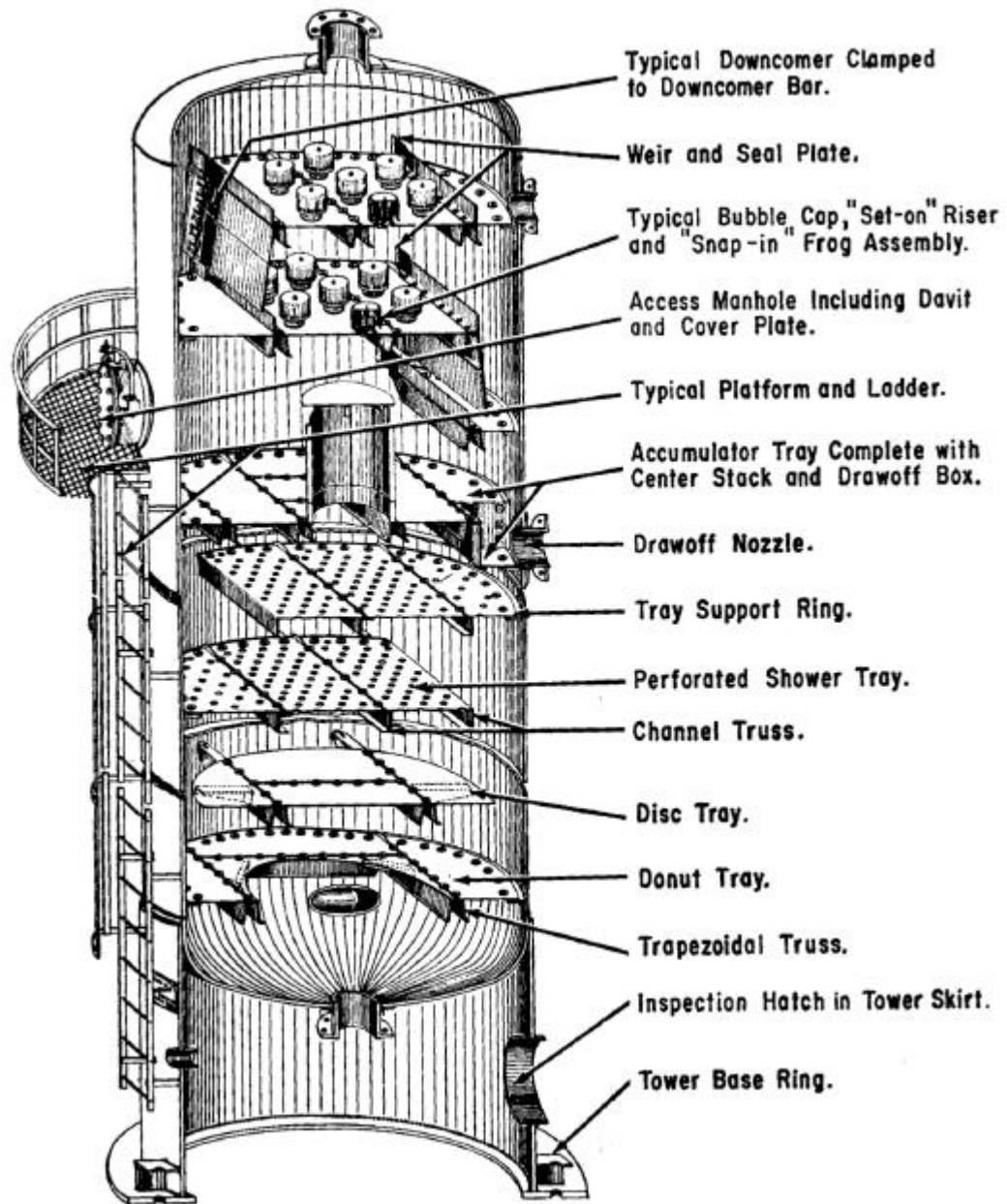
Tray Deck

Active Area  
Vapor

Liquid

Liquid

### 3) Tray Tower



[ 13] Tray Tower

(1) Downcomer

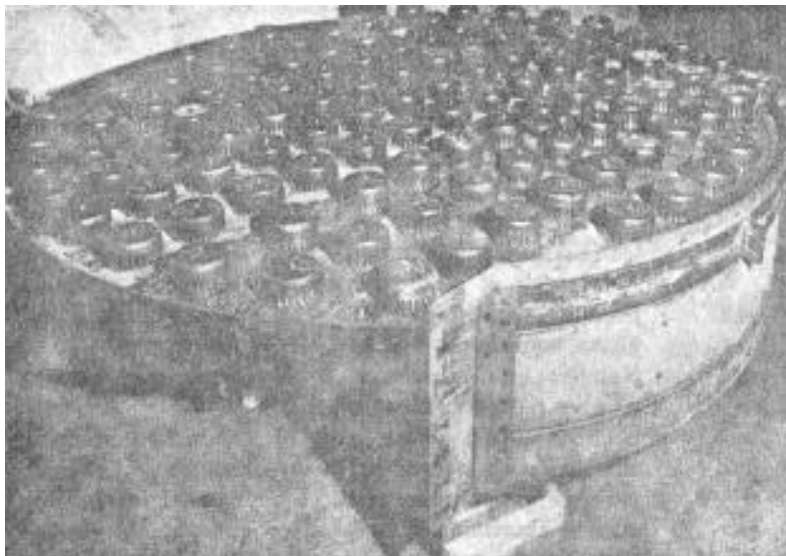
Tray Deck	Liquid	Tray Deck
Tray Performance	가	Type

## (2) Weir And Seal Plate

Tray Deck	Downcomer	Liquid	Contact Time
		Tray Pressure Drop	가

## (3) Bubble Cap

Type	Bubble Cap Type	
Vapor Cap	Riser Slot Area	Liquid Contact



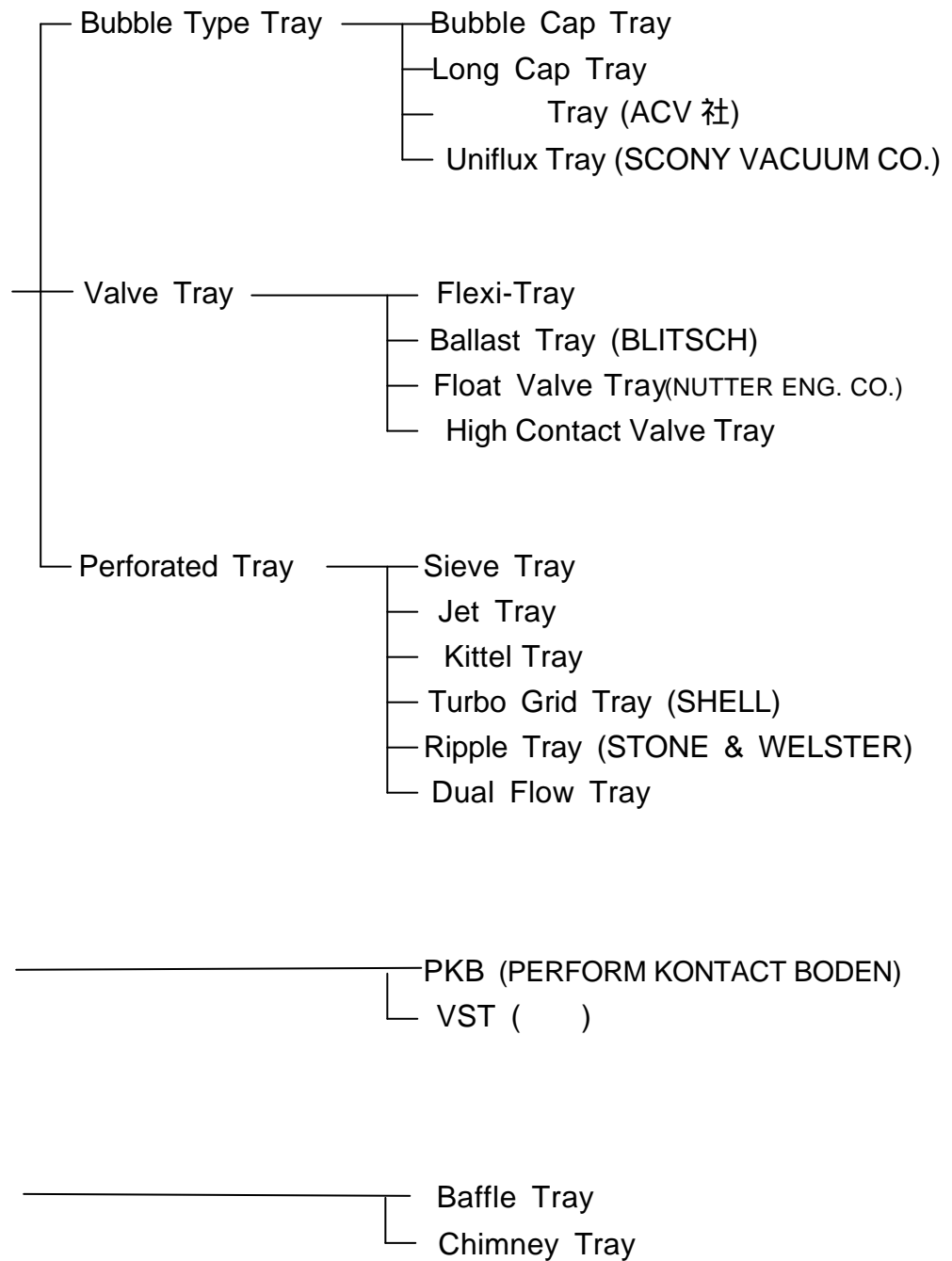
[ 14] Bubble Cap

## (4) Accumulator Tray


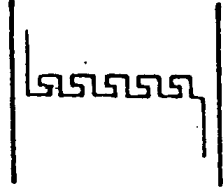
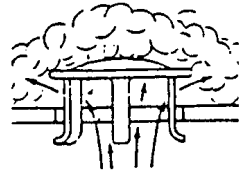
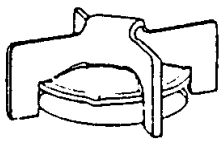
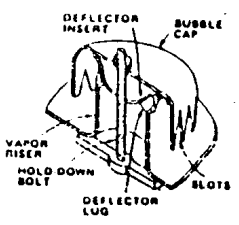
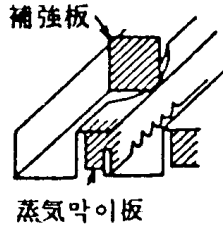
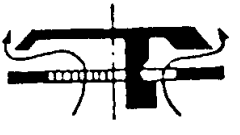
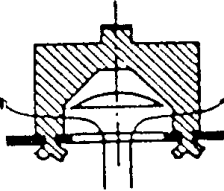

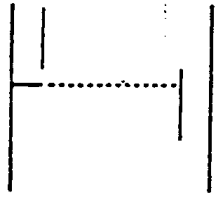
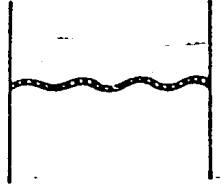
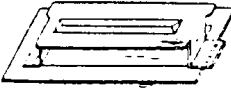
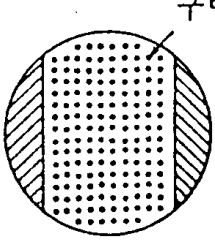
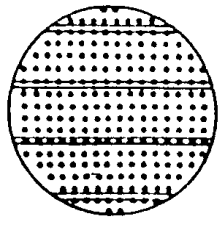
Liquid	Vapor 가	Cross Flow	Mass Transfer 가
	Downcomer Inlet Area		

#### 4) Tray

(1)



(2) Tray

	Bubble Cap Tray	Uniflux Tray	Ballast Tray	Flexy Tray
				
				
	Float Valve Tray	Sieve Tray	Ripple Tray	
				
				

[ 15 ] Tray

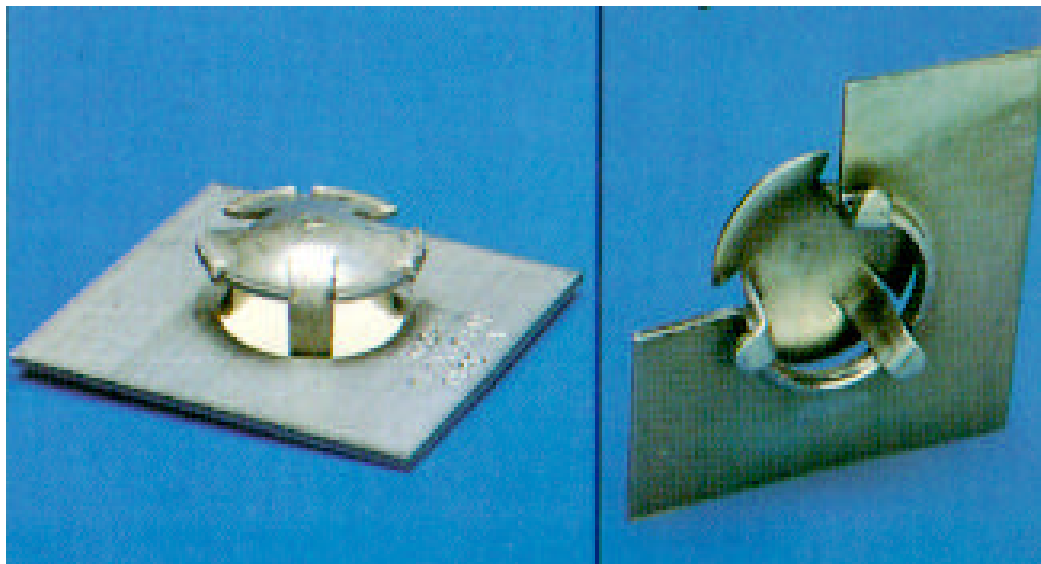


가. Bubble Cap Tray



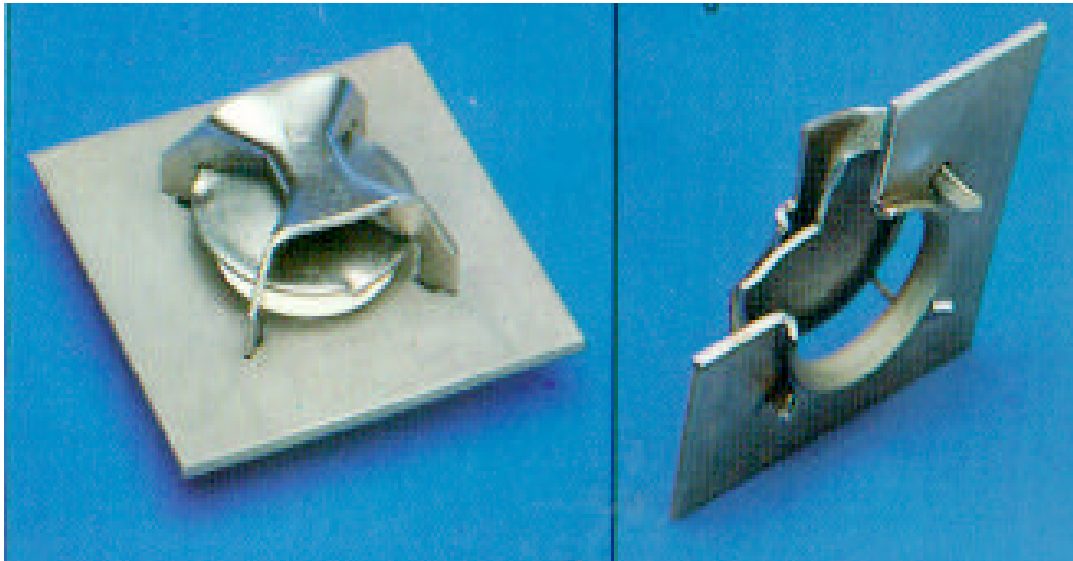
[ 16] Bubble Cap Tray

. Ballast Tray



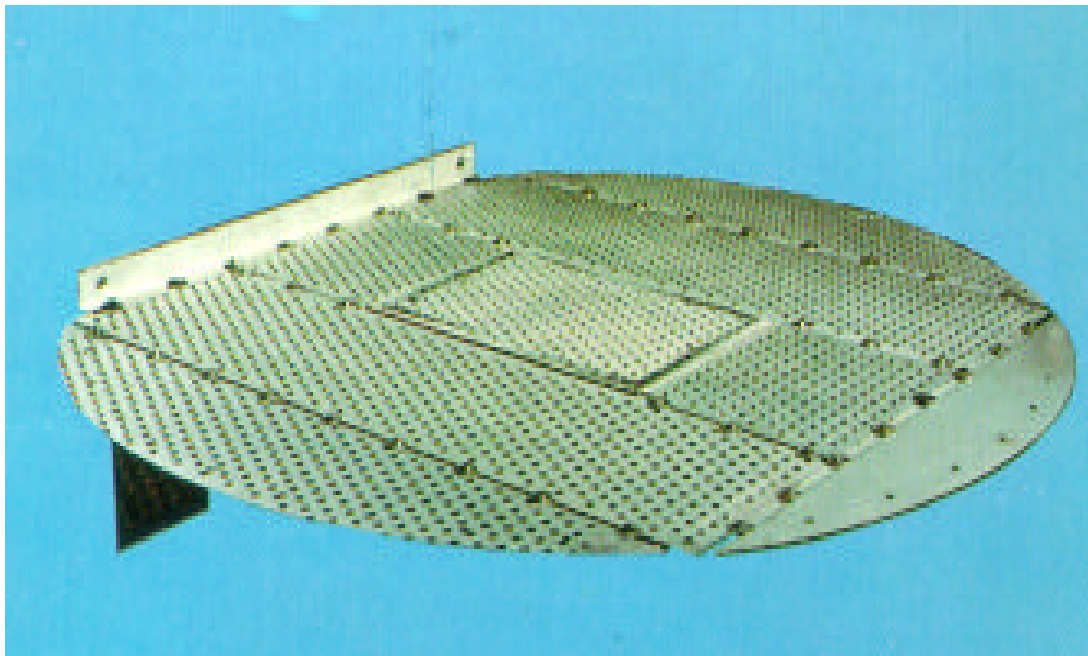
[ 17] Ballast Tray

. Flexi Tray



[ 18] Flexi Tray

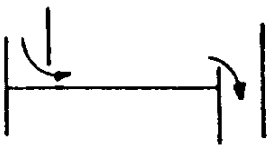
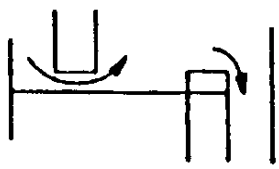
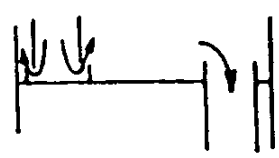
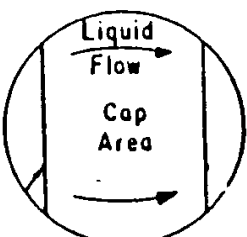

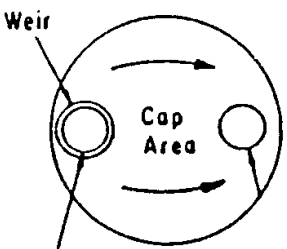
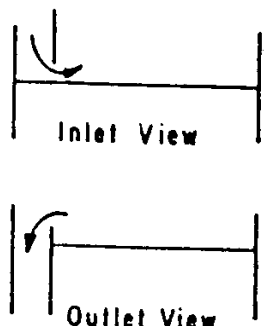
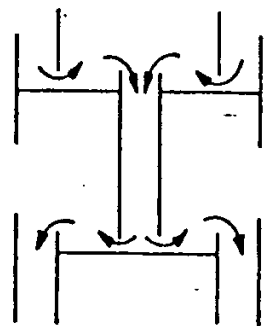
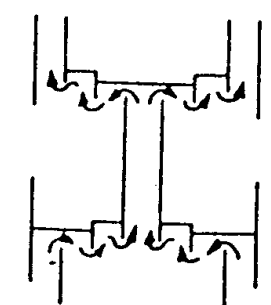
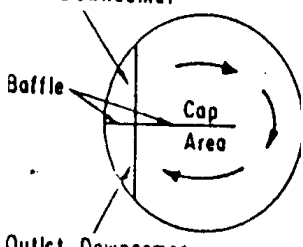
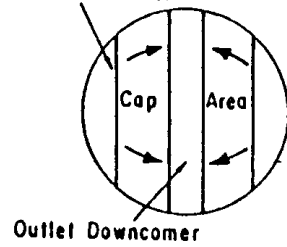
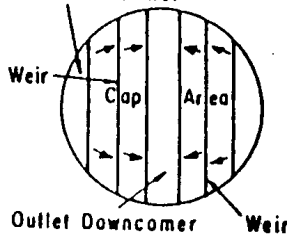
. Sieve Tray



[ 19] Sieve Tray

(3)

Tray

	Cross Flow		
			
	<p>Outlet Downcomer</p>  <p>Inlet Downcomer</p>	 <p>Downcomer</p>	 <p>Weir</p> <p>Downcomer</p>
	Reverse Flow	Double-Pass	Double-Pass Cascade
	 <p>Inlet View</p> <p>Outlet View</p>		
	 <p>Inlet Downcomer</p> <p>Baffle</p> <p>Cap Area</p> <p>Outlet Downcomer</p>	 <p>Inlet Downcomer</p> <p>Cap Area</p> <p>Outlet Downcomer</p>	 <p>Inlet Downcomer</p> <p>Weir</p> <p>Cap Area</p> <p>Outlet Downcomer</p> <p>Weir</p>

[ 20]

Tray

## 5) Tray

### (1) Tray

[ 1] Tray

		Capa.	P				
Bubble Cap	-	1.0	中		1.0	-	가 가 Tray
Uniflux	Scony Vacuum Co.	1.0	中		0.7~ 0.8	-	-
Ballast	Fritz W. Glitsch	1.2 ~ 1.4	中		0.6~ 0.8	-	-  가 .
Flexi	KOCH	1.2 ~ 1.4	中		0.5~ 0.6	-	-
Float Valve	Nutter Eng. Co	1.2 ~ 1.4	中		0.4~0.5	-	- Float Valve
Sieve	-	1.2 ~ 1.4	低	가	0.4~0.5	-	- 가  Hole
Ripple	Stone & Welster	1.2 ~ 1.4	低		0.5~ 0.6	-	- "

## (2) Tray

Downcomer Liquid Seal Area  
 Bubbling Area Liquid Tray  
 Vapor Outlet Weir 가 Bubbling Area Downstream Side  
 Tray Liquid Level  
 Bubbling Area Hardware  
 Sieve, Valve, Bubble Cap Tray

### [ 2] Tray

Type	
Sieve Tray	<ul style="list-style-type: none"> <li>o Bubbling Action</li> <li>o Design</li> <li>o 가</li> <li>o Fouling</li> <li>Hole Diameter 가</li> </ul>
Valve Tray	<ul style="list-style-type: none"> <li>o Hole Valve 가</li> <li>o Design</li> <li>o Design Capacity</li> </ul>
Bubble Cap Tray	<ul style="list-style-type: none"> <li>o 가 Tray</li> <li>o Design Vapor Rate 가 0</li> <li>Separation Loss 가</li> </ul>

## (3) Dualflow Tray

Bubbling Area , Downcomer, Downcomer  
 Seal Area Gas-Liquid Hole  
 Fractional Area Crossflow Tray

### [ 3] Dualflow Tray

	<ul style="list-style-type: none"> <li>O Crossflow Pressure Drop Design</li> <li>O Fouling Hole Size</li> <li>O 가 가</li> <li>O Debottlenecking Column</li> </ul>
	<ul style="list-style-type: none"> <li>O Crossflow Tray</li> <li>O Operating Range 가</li> <li>O Turndown Ratio 가</li> </ul>