



High  
Evaporation  
Efficiency

## Thin Film Evaporators

Thin Film Evaporators  
Short Path Evaporators



Blue Label Thin Film Evaporator "Blue Label" DN100

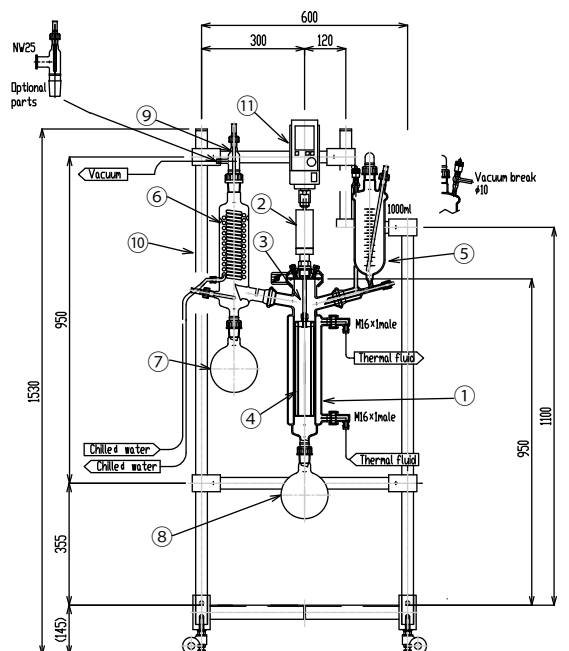
Blue Label

## Thin Film Evaporators "Blue Label"

- Evaporation Surface Area : 0.05m<sup>2</sup> (DN60), 0.1m<sup>2</sup> (DN100)
- Max. Temperature : +200°C (Jacket), +300°C (Jacket) is also available.  
[PTFE Wiper : +200°C, PBI\* Wiper : +300°C]
- Operating Pressure : > 1 mbar
- Feed rate : 0.1 to 1.5kg/h (DN60), 0.3 to 3.0kg/h (DN100)
- Max. viscosity at operating temperature : 1,000mPa·s (Custom-made)
- Max. Rotation Speed : 400rpm
- All Parts that come into contact with fluid are made of borosilicate glass 3.3, PTFE, and SS316.

\* PBI = Polybenzimidazole

- High Evaporation Efficiency
- Minimum Thermal Decomposition
- Gas and Vacuum Tight
- Uniform Thin Film
- Jacketed Evaporator for Easy Viewing
- Uniform Rotating Wiper System  
Up to 300°C (Option)
- Grease-less Magnetic Sealed Bearing, Valves and Joints
- Perfect for Heat Sensitive Materials
- Short Residence Time



Thin Film Evaporators "Blue Label"

No.	Equipment	DN60	DN100
1	Jacketed evaporator	ID 60mm, Evaporation Surface Area : 0.05m <sup>2</sup>	ID 100mm, Evaporation Surface Area : 0.1m <sup>2</sup>
2	Magnetic seal with cover	Torque : 1.1N · m, Cover : SS316	
3	Stirrer Shaft	SS316	
4	Wiper	PTFE Wiper : +200° C (Polybenzimidazole Wiper : +300° C)	
5	Feed vessel	Feed vessel : 1000ml, Vent valve : Φ 10 Thermometer pocket, TS14/25, Φ 8, 245(L) Cap, TS29/32 Needle Valve, NGTV-12L	Feed vessel : 2000ml, Vent valve : Φ 10 Thermometer pocket, TS14/25, Φ 8, 330(L) Cap, TS29/32 Needle Valve, NGTV-12L
6	External Condenser	Condense Surface Area : 0.1m <sup>2</sup> , Thermometer pocket : TS14/25, Φ 8, Water Connectors × 2 : Φ 8	Condense Surface Area : 0.2m <sup>2</sup> , Thermometer pocket : TS14/25, Φ 8, Water Connectors × 2 : Φ 8
7	Receiver for high molecular weight	1000ml, Borosilicate glass 3.3	2000ml, Borosilicate glass 3.3
8	Receiver for low molecular weight	1000ml, Borosilicate glass 3.3	2000ml, Borosilicate glass 3.3
9	Adapter	Adapter : TS34/45, TS14/25, Φ 12, Thermometer Pocket : TS14/25, Φ 8	
10	Structure	W 600 × D 305 × H 1530mm, SS+Epoxy Coating	
11	Motor	Optional	

※ Continuous feed configurations are also available. Please contact AGI.

## Blue Label

### Short Path Evaporators "Blue Label"

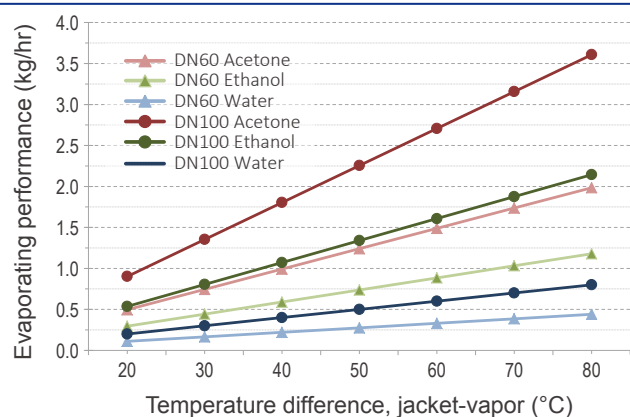
- Evaporation Surface Area : 0.05m<sup>2</sup> (DN60), 0.1m<sup>2</sup> (DN100)
- Max. Temperature : +200°C (Jacket), +300°C (Jacket) is also available.  
[ PTFE Wiper : +200°C, PBI\* Wiper : +300°C]
- Operating Pressure : > 0.001mbar
- Feed rate : 0.1 to 1.5kg/h (DN60), 0.3 to 3.0kg/h (DN100)
- Max. viscosity at operating temperature : 1,000mPa•s (Custom-made)
- Max. Rotation Speed : 400rpm
- All Parts that come into contact with fluid are made of borosilicate glass 3.3, PTFE, and SS316.

\* PBI = Polybenzimidazole



Blue Label Short Path Evaporator "Blue Label" DN100

### Evaporation Performance

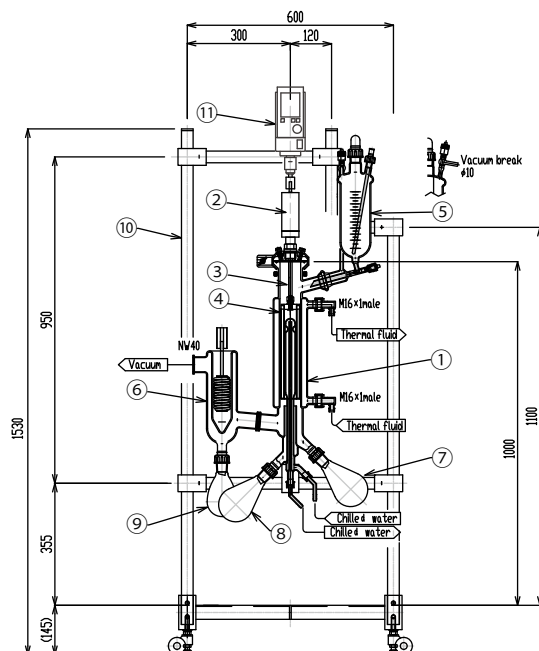


Experimental condition  
 • Pressure : Atmospheric pressure  
 • Flow rate of heat transfer fluid : 18L/min

### Short Path Evaporators "Blue Label"

No.	Equipment	DN60	DN100
1	Jacketed evaporator	ID : 60mm, Evaporation Surface Area : 0.05m <sup>2</sup>	ID : 100mm, Evaporation Surface Area : 0.1m <sup>2</sup>
2	Magnetic seal with cover	Torque : 1.1N • m, Cover : SS316	
3	Stirrer Shaft	SS316	
4	Wiper	PTFE Wiper : +200° C (Polybenzimidazole Wiper : +300° C)	
5	Feed vessel	Feed vessel : 1000ml, Vent valve : Φ 10 Thermometer pocket, TS14/25, Φ 8, 245(L) Cap, TS29/32 Needle Valve, NGTV-12L	Feed vessel : 2000ml, Vent valve : Φ 10 Thermometer pocket, TS14/25, Φ 8, 330(L) Cap, TS29/32 Needle Valve, NGTV-12L
6	Trap	DN50, 200H, NW25, Borosilicate glass 3.3	DN50, 200H, NW40, Borosilicate glass 3.3
7	Receiver for high molecular weight	500ml, Borosilicate glass 3.3	1000ml, Borosilicate glass 3.3
8	Receiver for low molecular weight	500ml, Borosilicate glass 3.3	1000ml, Borosilicate glass 3.3
9	Receiver	300ml, Borosilicate glass 3.3	500ml, Borosilicate glass 3.3
10	Structure	W 600 × D 305 × H 1530mm, SS+Epoxy Coating	
11	Moter	Optional	

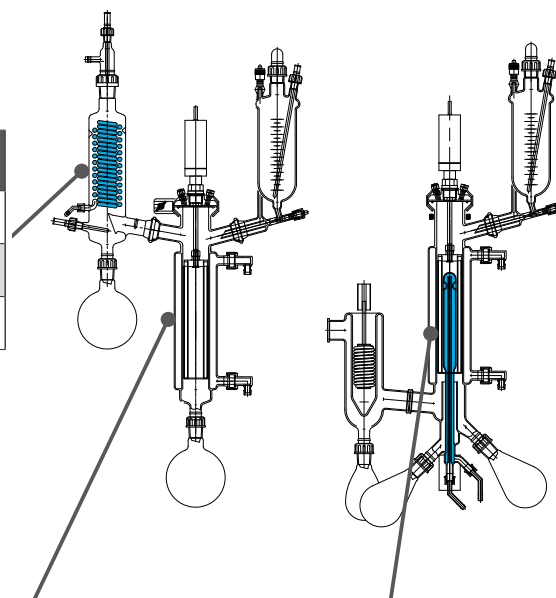
※ Continuous feed configurations are also available. Please contact AGI.



Main Differences:

# Thin Film and Short Path Evaporators

	Thin Film Evaporators	Short Path Evaporators
Design Pressure	1mbar	0.001mbar
Condenser	External Condenser	Internal Condenser
Heat Sensitivity	○	◎



## AG! ADVANTAGE

Together we can work to find the perfect solution to suit your application requirements.

**Fully corrosion resistant models also available.**  
**Evaporation surface area MAX. 1.5m<sup>2</sup> (DN450)**

Platinum Label Custom Chemical Engineering Solutions

Gold Label Flexible Customized Solutions for All Standard Products

Blue Label Standard Complete Package: Plug & Play



# AG!

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