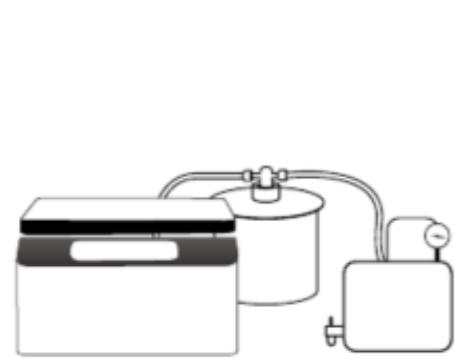
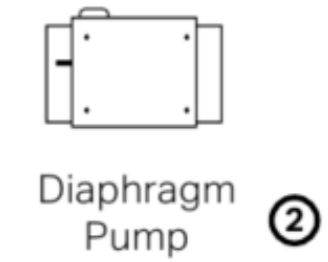
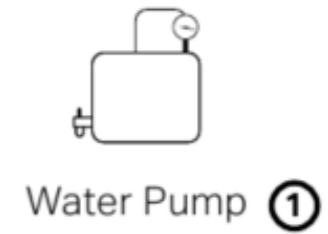
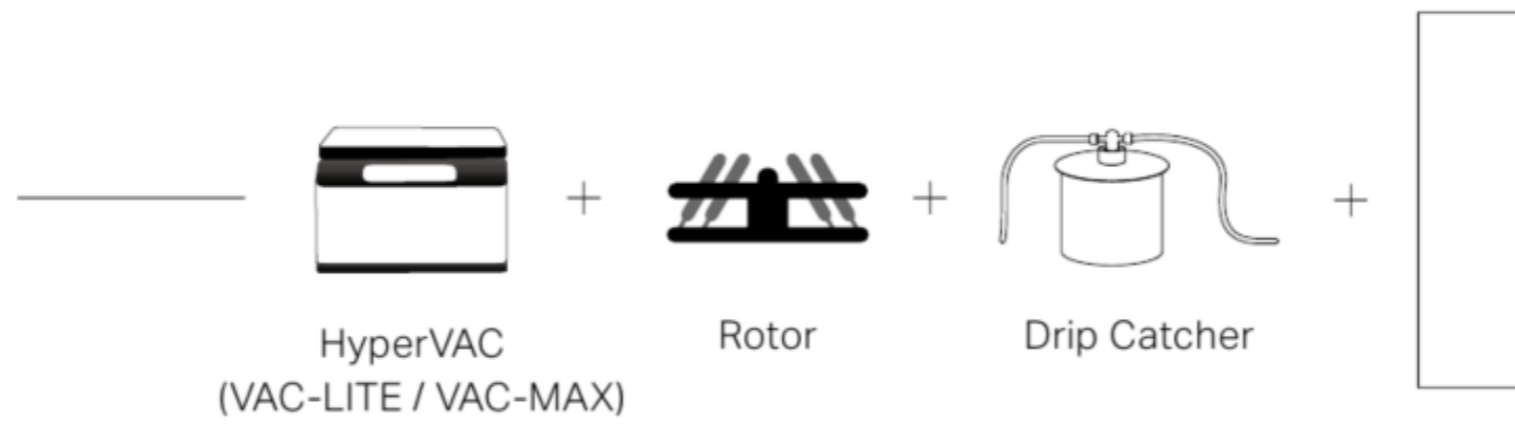


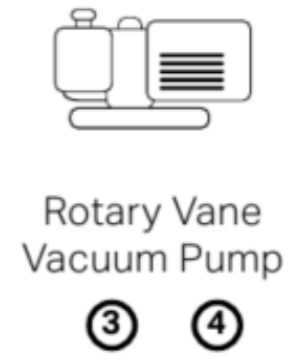
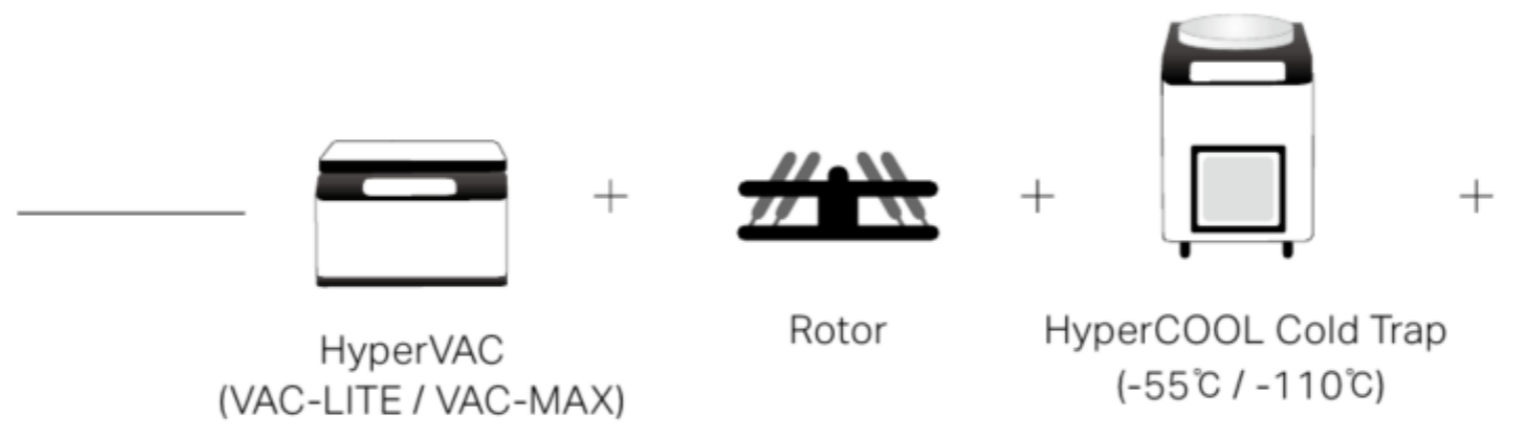
HyperVAC Centrifugal Vacuum Concentration System Configuration



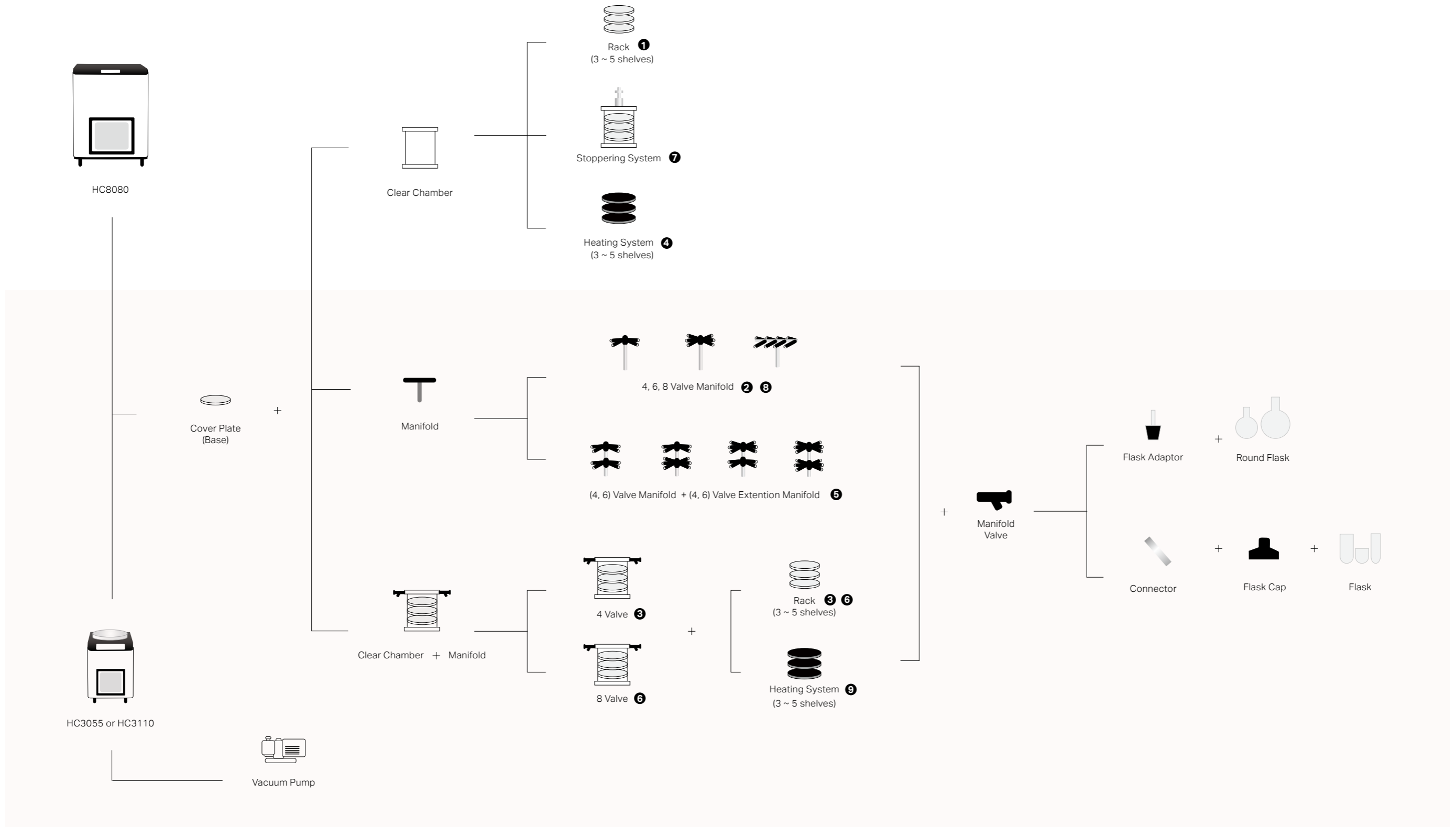
Ice temperature
HyperVAC System
(VAC-LITE / VAC-MAX)



-55°C / -110°C HyperVAC System
(VAC-LITE / VAC-MAX)



HyperCool Freeze Dry System Configuration



Can be configured with HyperVAc (Lite / Max) for multi-purpose (Cold trap freeze drying)

HyperCool (Freeze Drying) Configuration

HyperCool (3055, 3110) needs to be configured with Rotary Vane Pump (GVP-W2V20)

**1** Basic Chamber

HyperCool (3055, 3110, 8080) + Acrylic Base + Stainless Steel Rack (3~5 shelves) + Acrylic Chamber

**2** Basic Manifold (4,6)

HyperCool (3055, 3110, 8080) + Acrylic Base + Basic Manifold (4,6)

**3** Acrylic Chamber with Rubber Valve (4)

HyperCool (3055, 3110, 8080) + Acrylic Base + Acrylic Chamber with Rubber Valve (4) + Stainless Steel Rack (3~5 shelves)

**4** Heating Chamber

HyperCool (3055, 3110, 8080) + Heating Rack (Base included) (3~5 shelves) + Acrylic Chamber

**5** 2 Step Manifold

HyperCool (3055, 3110, 8080) + Acrylic Base + Basic Manifold (4, 6) valve extendable with (4, 6) valve regardless of basic Manifold

**6** Acrylic Chamber with Rubber Valve (8)

HyperCool (3055, 3110, 8080) + Acrylic Base + Acrylic Chamber with Rubber Valve (8) + Stainless Steel Rack (3~5 shelves)

**7** Stoppering Chamber

HyperCool (3055, 3110, 8080) + Acrylic Base + Stoppering Rack + Stoppering Acrylic Chamber

**8** Basic Manifold (8)

HyperCool (3055, 3110, 8080) + Acrylic Base + Basic Manifold (8)

**9** Acrylic Chamber with Rubber Valve (4, 8) (Heating)

HyperCool (3055, 3110, 8080) + Acrylic Chamber with Rubber Valve (4, 8) + Heating Rack (3~5 shelves)

HyperVAC (Centrifugal Concentration) Configuration



① Drip Catcher (Ice Temperature), Water Pump

HyperVAC (LITE, MAX) + Drip Catcher + Water Pump



② Drip Catcher (Ice Temperature), Diaphragm pump

HyperVAC (LITE, MAX) + Drip Catcher + Diaphragm Pump



③ Cold Trap (-55°C, -110°C), Rotary Vane Pump, Table A

HyperVAC (LITE, MAX) + HyperCool (-55°C, -110°C) + Acrylic Base Rotary Vane Pump. Table A (HyperCool underneath, Vacuum pump in the back)



④ Cold Trap (-55°C, -110°C), Rotary Vane Pump, Table B

HyperVAC (LITE, MAX) + HyperCool (-55°C, -110°C) + Acrylic Base Rotary Vane Pump. Table B (HyperCool side, Vacuum Pump underneath)

Multi-Purpose Configuration (Centrifugal Concentration + Freeze Drying)

Only HyperCool (3055, 3110) applicable to Multi-Purpose Configuration*



Centrifugal Concentration + Freeze Drying (Manifold)

HyperVAC (LITE, MAX) + configuration (p.157 2, 5, 8) + Table B



Centrifugal Concentration + Freeze Drying (Acrylic Chamber + Rubber Valve + Stainless Steel Rack / Heating Rack)

HyperVAC (LITE, MAX) + configuration (p.157 3, 6, 9) + Table B