

RF-DM-148G

Mesh Demister / Bubbler Assembly — Pyrex Glass Bowl, ½" NPT, with Bubbler Tube

KOH

MIST REMOVAL

½"

NPT CONNECTIONS

Pyrex

GLASS BOWL

316L

SS HEAD

TECHNICAL SPECIFICATIONS

Model	RF-DM-148G
Type	Mesh Demister with Bubbler Tube Assembly
Material — Head	316L Stainless Steel
Material — Bowl	Pyrex (borosilicate) glass
Material — Mesh	Stainless Steel woven mesh pad
Inlet / Outlet	½" NPT female
Drain	¼" NPT
Overall Height	~246 mm
Mesh Height	~126 mm
Bowl Diameter	~56 mm
Max. Working Pressure	~7 bar (glass bowl limitation)
Bowl Guard	Integrated metal bowl guard

⚠ PRESSURE WARNING: The Pyrex glass bowl limits the maximum working pressure to approximately 7 bar. For applications above 7 bar, the demister must be installed downstream of a pressure reduction stage. For all-stainless options, contact R+F engineering.

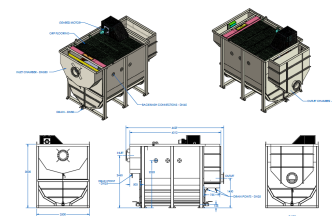
OPERATING PRINCIPLE

The RF-DM-148G operates as a **gas washing / bubbler unit**. The incoming gas stream is directed through the bubbler tube into a liquid bath (typically deionised water) contained in the glass bowl. As the gas bubbles through the liquid, water-soluble contaminants — primarily **KOH electrolyte mist and aerosol** — are absorbed into the wash liquid. The gas then passes through a stainless steel mesh demister pad, which removes entrained liquid droplets before the cleaned gas exits through the outlet port. The glass bowl enables **visual monitoring** of the wash liquid condition and contamination level.

RECOMMENDED SYSTEM INTEGRATION

Alkaline / AEM Electrolyser — Recommended Sequence:

Stack → Gas-Liquid Separator → [Pressure Reduction ≤7 bar] → **RF-DM-148G** (DI water wash) → **RF-H-132 + RF-C-25064-ME** (Coalescing) → Dryer / Purifier → Analyser / Storage



RF-DM-148G Assembly Drawing

Key Components

- Bubbler tube (gas inlet)
- SS mesh demister pad
- Pyrex glass bowl
- Metal bowl guard
- ½" NPT head connections

Maintenance

Replace DI wash water regularly based on contamination level (visual inspection through glass bowl). Frequency depends on electrolyte carryover rate — typically weekly to monthly in pilot systems.