



**ARDORVIS
TECHNOLOGY**

Part of the Heat & Power Group

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Tower Packing Media for Scrubbing, Distillation & Biogas Upgrading

At Ardorvis Technology Ltd, we supply high-performance random packing media for mass transfer, gas-liquid separation, and contaminant scrubbing applications. Our portfolio includes advanced solutions such as Tripack, Pall Rings, Ralu Rings, Ralu-Flow, and the Raschig Super-Ring® Series — proven technologies from industry leaders

Whether upgrading a biogas plant, installing a new scrubbing tower, or optimising a distillation column, we offer full engineering support, supply of OEM and equivalent internals, and media replacement services.

Applications We Serve

- Biogas scrubbing and upgrading (CO₂, H₂S, NH₃)
- Distillation, rectification, and absorption towers
- Odour control and chemical scrubbing
- VOC, solvent, and acid gas treatment
- Cooling tower and degassing applications

Our Packing Media Portfolio

Tripack (Tri-Packs®)

Spherical, free-flowing plastic elements offering excellent wetting and minimal pressure drop.

Sizes: 1", 2", 3.5"

Free Volume: Up to 95%

Materials: PP, PE, PVDF, ETFE

Ideal for: Odour control units, low-pressure drop scrubbers

Key benefits:

- High fouling resistance
- Excellent gas-liquid dispersion
- No nesting or settling

Pall Rings

A benchmark cylindrical random packing used across all major mass transfer operations.

Materials: Metal (SS, Hastelloy), ceramics, plastics (PP, PVDF)

Sizes: 15–90 mm

Surface Area: Up to 350 m²/m³

Key advantages:

- Low pressure drop
- Good liquid distribution
- Widely compatible with legacy systems

Ralu Rings

Enhanced Pall Ring geometry with bead reinforcement (metal) or injection-moulded stability (plastic).

Surface Area: Up to 320 m²/m³

Free Volume: Up to 98%

Performance: Improved mechanical strength, lower pressure drop, higher mass transfer efficiency

Applications: High-capacity absorption and stripping columns

Ralu-Flow

An advanced plastic packing designed for maximised flow rates, minimal liquid holdup, and exceptional thermal/mechanical stability.

Sizes: No. 1, No. 2

Surface Area: 100–165 m²/m³

Free Volume: 95%

Optimised for: NH₃ scrubbing, large-scale CO₂ removal

Benefits over Pall Rings:

- Smaller column diameters
- Lower pressure drop
- Better liquid distribution

Super-Ring® & Super-Ring® Plus

Fourth-generation metal random packing designed for maximum efficiency, low pressure drop, and superior gas-liquid interaction.

Free Volume: 95–98%

Surface Area: Up to 450 m²/m³ (size-dependent)

Features:

- Waveform geometry for turbulence and efficiency
Ideal for solvent recovery, ammonia and CO₂ stripping
Higher loading capacity than 50 mm Pall Rings

Additional Media & Accessories

We also supply and install:

- Liquid distributors, packing retainers, and support plates
- Column internals for new builds and retrofits
- Media reconfiguration and spent media disposal services

Material Options

We offer packing in:

- **Metals:** Stainless steel 304/316, Monel, Hastelloy, Titanium
- **Plastics:** PP, PE, PVDF, PFA, PTFE, ECTFE, PES, PPS, LCP
- **Ceramics:** High-purity porcelain for high-temperature chemical resistance

We guide clients on material compatibility based on gas composition, temperature, corrosive agents, and pressure requirements.

Services We Offer

- Supply of OEM-grade or equivalent packing media
- Column design and upgrade consultation
- Spent media removal and replacement
- Bed depth optimisation for better mass transfer
- On-site audits and media change-out planning

Contact Ardorvis today to specify your tower packing media needs, request datasheets, or book a site inspection.