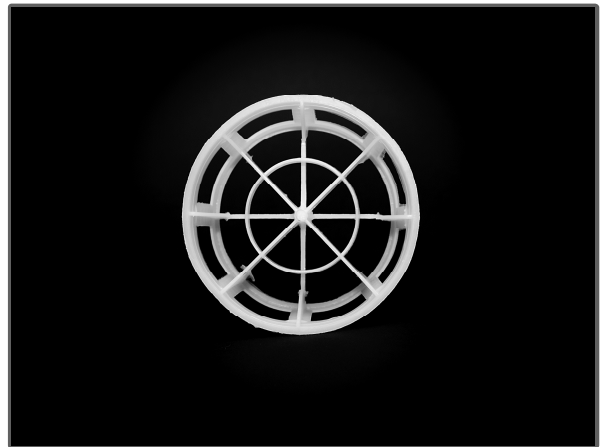




Low Profile Rings

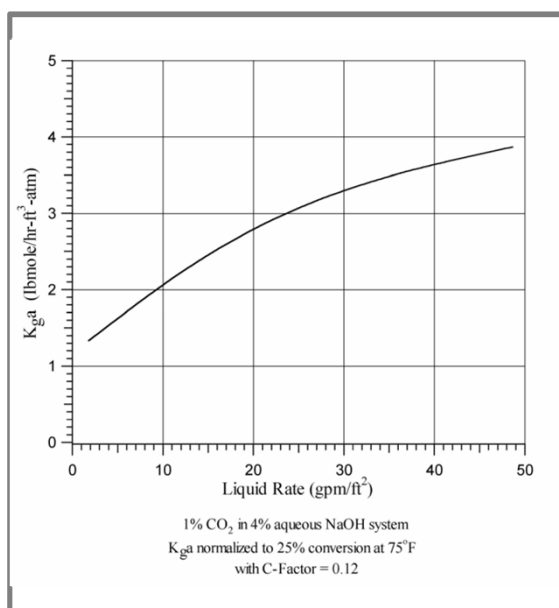
Product Bulletin 650

High-performance, free-flowing random packing for scrubber and stripper applications.



Low Profile Rings are an industry reference in high-performance random packing. Available in a full spectrum of thermoplastic and engineering resins, they offer high mass transfer rates, excellent gas and liquid dispersion characteristics, and superior fouling resistance.

Size	1A (1")	2A (2")	3A (3.5")
Geometric Surface Area (ft²/ft³)	85	48	40
Packing Factor (1/ft)	26	16	12
Void Space (%)	92	93	94
Bulk Density (lb _m /ft ³ , reference: polypropylene)	4.0	3.5	3.2



Low Profile Rings have significantly higher mass-transfer efficiency than conventional packings.

Low Profile Rings are available in a variety of resins:

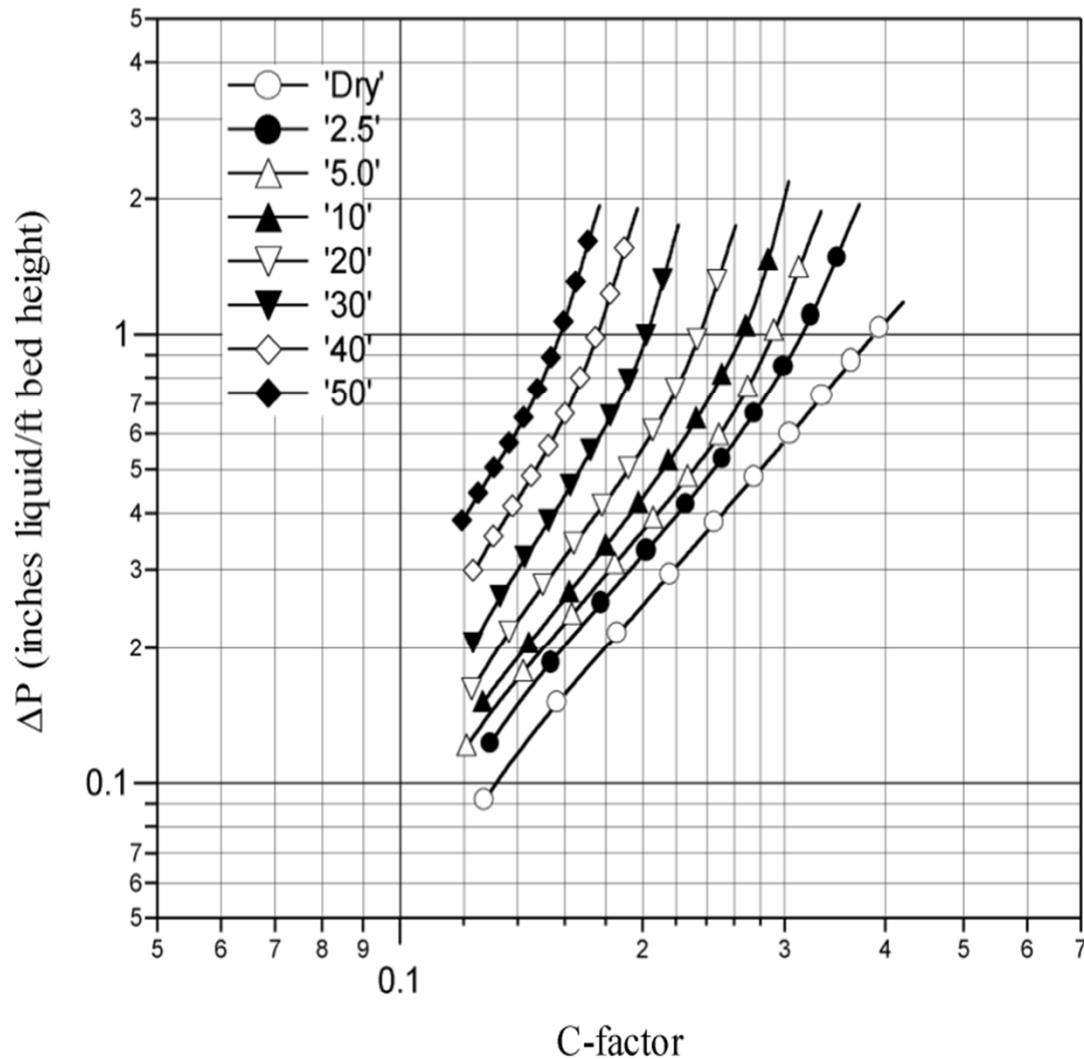
Polypropylene (PP); Polyethylene (PE); Polypropylene Glass Filled (PPG); Kynar® (PVDF); Teflon® (PFA); Tefzel® (ETFE) and others – please contact Raschig USA to discuss which plastic resin best suits the needs of your project.



Pressure Drop vs. C-factor

1A Plastic Jaeger Low Profile Rings

Ambient Air-Water Systems for Various Liquid Loadings (gpm/sq. ft)



$$C\text{-factor} = V_s [(\rho_V)/(\rho_L - \rho_V)]^{1/2} \text{ where}$$

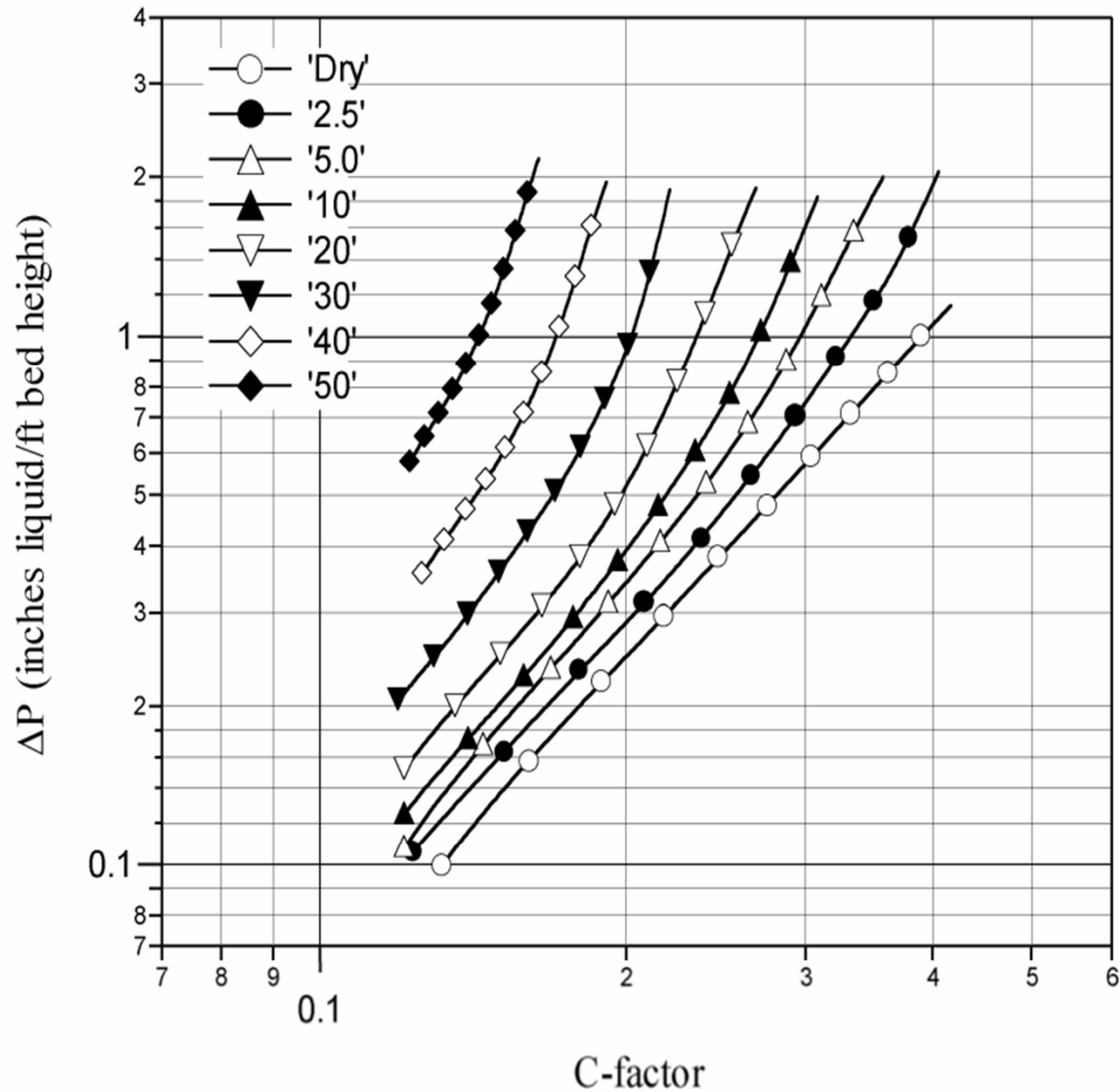
V_s = Superficial vapor velocity in ft/sec
 ρ_L and ρ_V = Density of Liquid and Vapor in lb/cu. ft



Pressure Drop vs. C-factor

2A Plastic Jaeger Low Profile Rings

Ambient Air-Water Systems for Various Liquid Loading (gpm/sq. ft.)



$$C\text{-factor} = V_s [(\rho_V)/(\rho_L - \rho_V)]^{1/2} \text{ where}$$

V_s = Superficial vapor velocity in ft/sec

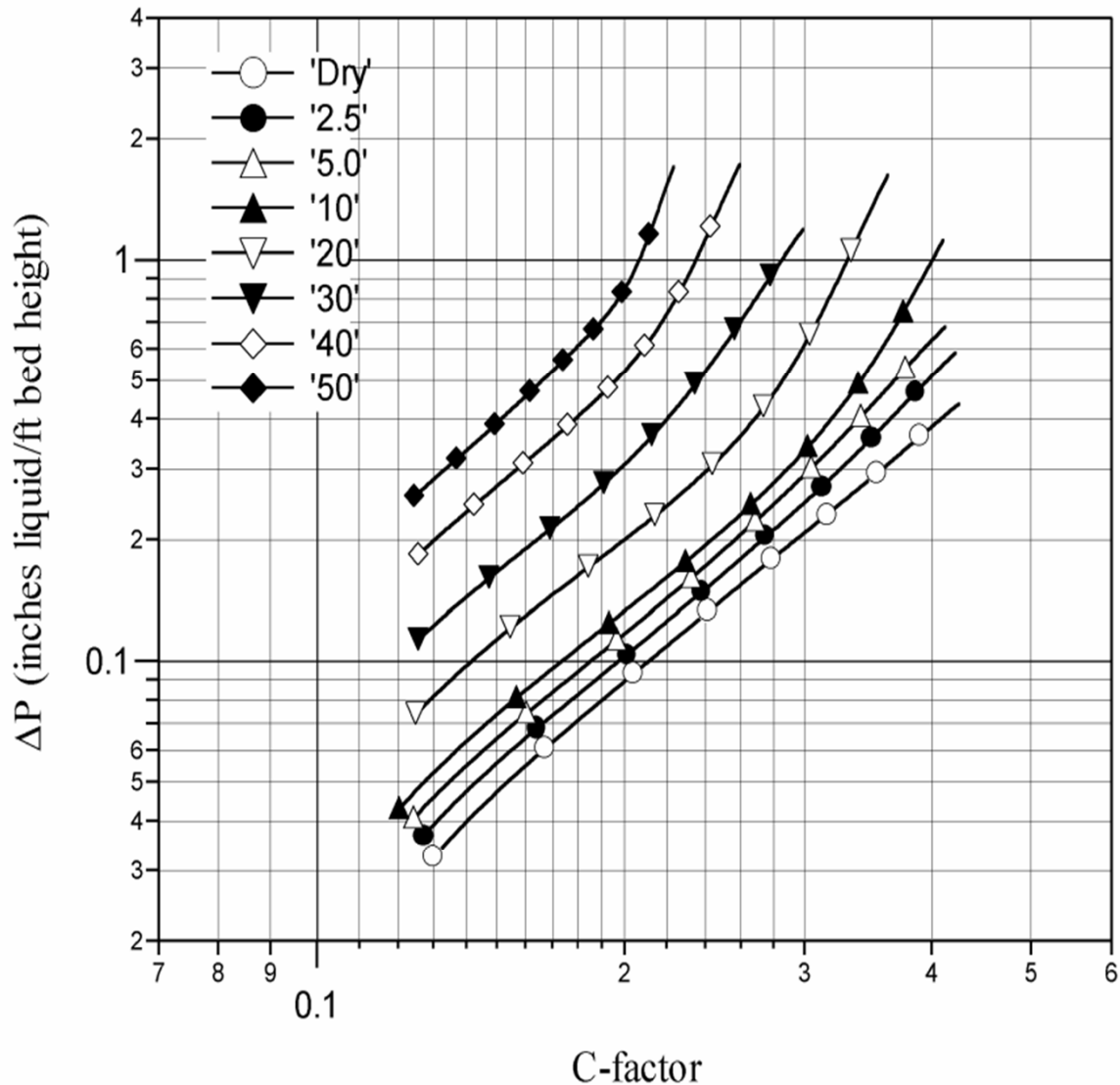
ρ_L and ρ_V = Density of Liquid and Vapor in lb/cu. ft



Pressure Drop vs. C-factor

3A Plastic Jaeger Low Profile Rings

Ambient Air-Water Systems for Various Liquid Loading (gpm/sq. ft.)



$$C\text{-factor} = V_s [(\rho_V)/(\rho_L - \rho_V)]^{1/2} \text{ where}$$

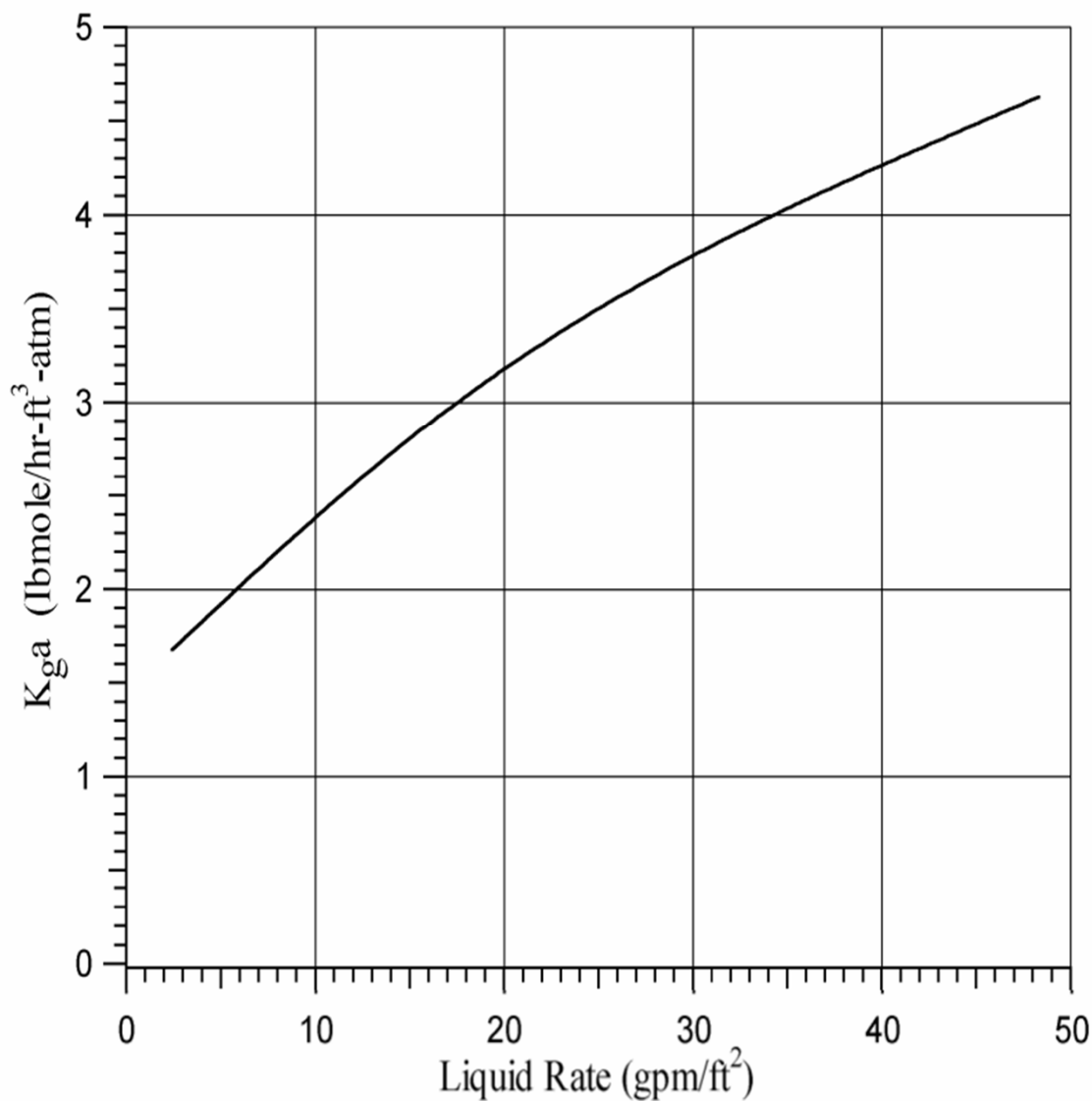
V_s = Superficial vapor velocity in ft/sec

ρ_L and ρ_V = Density of Liquid and Vapor in lb/cu. ft



Mass Transfer Efficiency vs. Liquid Rate

1A Plastic Jaeger Low Profile Rings

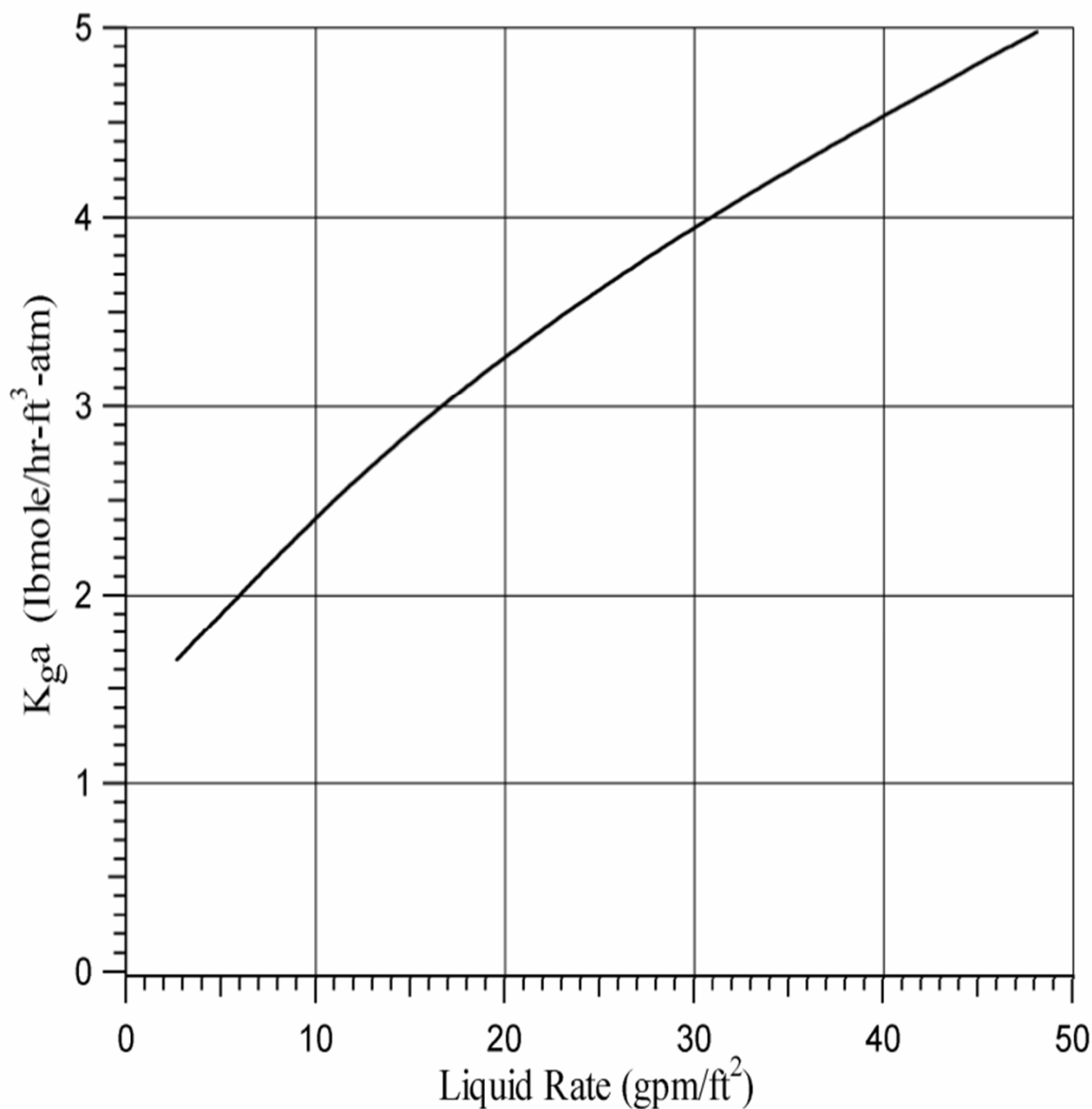


1% CO₂ in 4% aqueous NaOH system
 K_{ga} normalized to 25% conversion at 75°F
with C-Factor = 0.12



Mass Transfer Efficiency vs. Liquid Rate

2A Plastic Jaeger Low Profile Rings

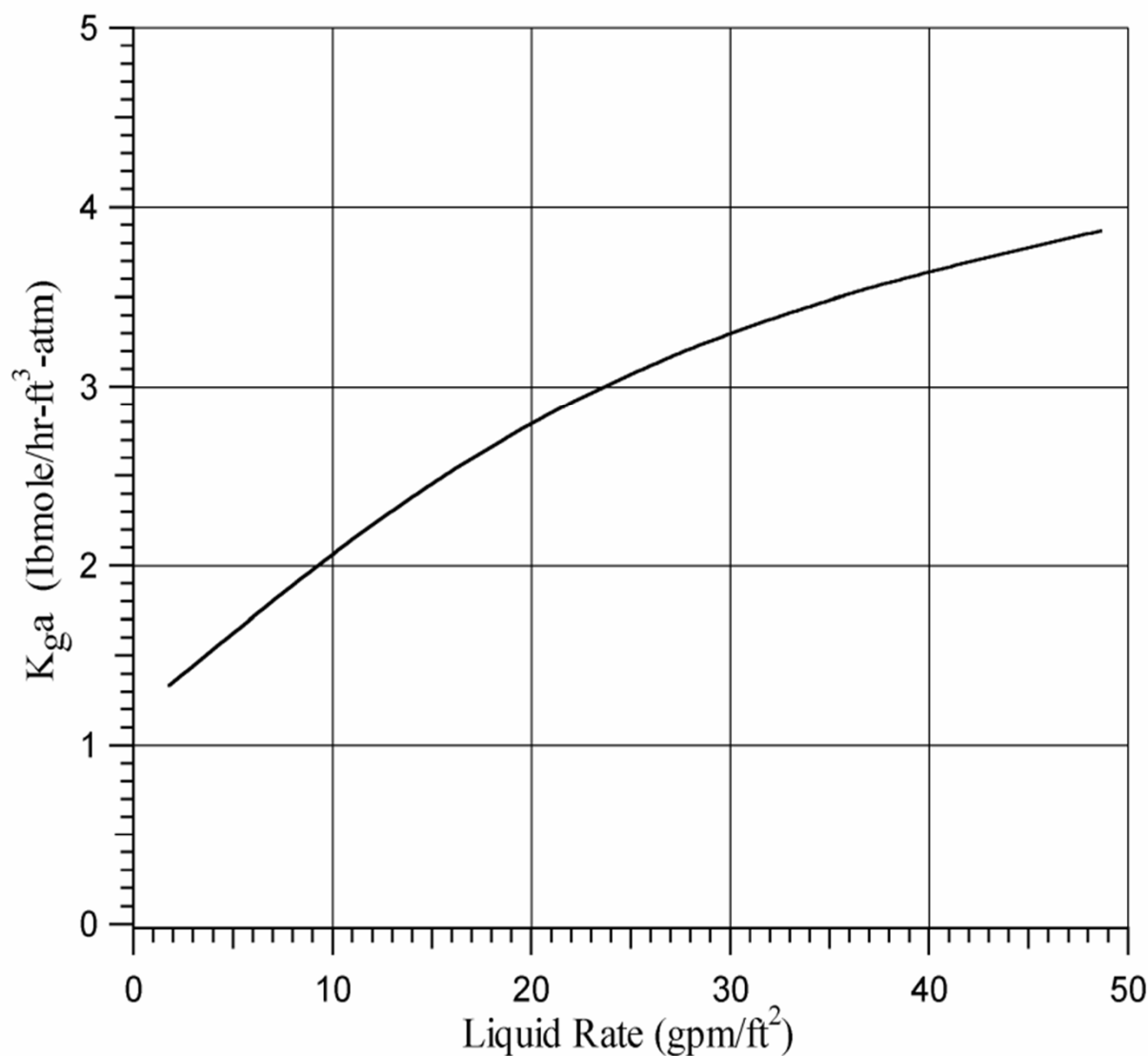


1% CO₂ in 4% aqueous NaOH system
 K_{ga} normalized to 25% conversion at 75°F
with C-Factor = 0.12



Mass Transfer Efficiency vs. Liquid Rate

3A Plastic Jaeger Low Profile Rings



1% CO_2 in 4% aqueous NaOH system
 K_{ga} normalized to 25% conversion at 75°F
with C-Factor = 0.12



Other product bulletins from Raschig USA, Inc.

100 General Product Information	600 Plastic Random – Jaeger Tri-Packs
200 Metal Random – RSR	625 Plastic Random – RSR
300 Mist Eliminators – Wire Mesh	650 Plastic Random – LPR
400 Fractionation Trays and Hardware	675 Plastic Random – Nor Pak
450 High Capacity – Nye Trays	700 Plastic Random – Rings and Saddles
475 High Capacity – CoFlo Trays	800 Ceramic Random Packing
500 Metal Structured Packing – RSR	900 Design Software
525 Metal Structured Packing – MaxPak	1000 Process Information
550 Plastic Structured Packing – RSP	1100 Column Internals
	1200 Reactor Internals

For more information and design assistance, please contact us at:

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