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Hy-pak



HY-PAK is an improved design of Pall ring, it has better advantaged than Pall rings, such as:

- 1) with a larger flux and low pressure drop.
- 2) to further improve the ring of gas and liquid distribution in favor of mass transfer process.
- 3) with a wide range of operating flexibility.
- 4) high mechanical strength.

Specifications for **Hy-pak**:

| Diameter (mm) | Pieces (m ³) | Weight (kg/m ³) | Void % | Packing Factor |
|---------------|--------------------------|-----------------------------|--------|----------------|
| 76 | 1100 | 208 | 97.7 | 49 |
| 50 | 3670 | 224 | 97.4 | 59 |
| 38 | 9390 | 280 | 97 | 85 |
| 25 | 29900 | 312 | 96.5 | 141 |

HETP estimates for **Hy-pak** compare others distillatoin applications:

| System | Pressure Range If known | general packing Type/style/make | Estimating HETP Ft or In. marked |
|--------------------|----------------------------|------------------------------------|-------------------------------------|
| ISO-Octane/Toluene | 100mm Hg | Hy-pak No.2 | 2.0-2.7 |
| Same | 740mm Hg | Hy-pak No.1 | 0.7-2.7 |
| Para/Ortho Xylene | 740mm Hg | Metal Intalox No.25 | 0.8-1.8 |
| Same | 740mm Hg | Metal Intalox No.40 | 1.3-1.55 |
| Same | Vacuum | Metal Intalox No.50 | 1.75-2.15 |
| Chlorinated HC | Vacuum | Metal intalox No.25 | 2 |
| Chlorinated HC | Vacuum | Metal Intalox No.40 | 2.4 |
| Chlorinated HC | 740mm Hg | Metal Intalox No.50 | 3.5 |
| ISO-Octane/Toluene | 740mm Hg | Pall ring,1" Metal | 1.0-2.0 |
| ISO-Octane/Toluene | 740mm Hg | Pall ring,1.1/2" Metal | 0.75-1.0(3.5) |



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| | | | |
|------------------------------|--------------|--------------------------|----------------|
| ISO-Octane/Toluene | 740mm Hg | Pall ring, 2" Meta | 1.5-2.2 |
| Methanol/Water | 740mm Hg | Pall ring,1" Metal | 0.65-0.8 (1.2) |
| Isopropanol/Water | 740mm Hg | Pall ring,1" Metal | 0.6-1.5 |
| Benzene/Toluene | 740mm Hg | Pall ring,1" Metal | 1.0-1.5 |
| Acetone/Water | 740mm Hg | Pall ring,1" Metal | 0.9-1.2(1.4) |
| Same | - | Flexiring,1" Metal | 1.6-1.8(2.3) |
| Same | - | Flexiring,2" Metal | 1.8-2.2(2.4) |
| Same | - | Koch Sulzer metal | 0.45-0.9 |
| Light Hydrocarbon | 400psia | General packing | approx 0.75 |
| Propane/Butane | 235psia | General packing | approx. 0.80 |
| Chlorobenzene/ethylbenzene | 50mm Hg | Montz structured metal | 5in-17in |
| Chlorohexane/n-Heptane | 1atm | #2 Nutter ring | 22in-30in |
| Chlorohexane/n-Heptane | 5psia | #2 Nutter ring | 25in-30in |
| various sys. | Vacuum | Goodloe Metal, various | 5in-8in |
| ISO-Octane/Toluene | 1atm | Cascade Mini-ring, #3 | 22in-28in |
| ISO-Octane/Toluene | 1atm | Cascade Mini-ring, #2 | 18in-24in |
| H-naphtha/light gas oil | Unknown | Gempak 1/2" crimp | 13in-15in |
| H-naphtha/light gas oil | Unknown | Gampak 1" Crimp | 22in-27in |
| H-naphtha/light gas oil | Unknown | Gampak 1/4" Crimp | 8in-10in |
| ethylene Clichloride/benzene | 1atm | ACS-X Mesh | 4in-9in |
| Methylcyclohexane/Toluene | 1atm | ACS-X 200 Mesh | 3.5in-12in |
| Unknown | Unknown | Koch Structured flexipac | 17in |
| General/Average | Unknown | Koch/Sulzer ® structured | 3in-9in |
| Ortho/para | 16mm Hg Abs | Koch/Sulzer ® structured | 5in-16in |
| Ortho/para | 100mm Hg Abs | Koch/Sulzer ® structured | 4.5in-8in |