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1940's. Yet, despite being a very mature technology, continued development is vital, especially as many refiners move their FCC operations from fuels production to higher value products.

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the periphery of the riser and projected upward. Oil-side pressure drop: 50 psi to 70 psi (3.5–4.9 kg/cm²) at the design feed rate. Nozzle exit velocity: 150 ft/s to 300 ft/s (45–100 m/s) Dispersion media and rate

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Several FCC units have been revamped to process more than 100,000 BPSD. According to the major licensors, the typical capacity of new FCC units is 40,000 to 60,000 BPSD. A-3
fAppendix A FCC technologies Less vendor detail and previous design information was available for estimation of the small scale FCC.

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The FCC technology based on the downer design, and which is in commercial operations, is briefly described below. Fig. 2 Forecast FCC capacity and propylene production [25, 53] Fig. 3 FCCU design and operating modes [32] Back mixing FCC Riser FCC Downer Feed + Catalyst Feed + Catalyst Fig. 4 Illustration of flow in riser and downer FCC [6]

producers. This technology was introduced to refiners and started to gain acceptance in the late 1980's when refiners needed to upgrade

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the value of slurry oil in Fluid Catalytic Cracking (FCC) units by removing catalyst fines. Today Pall's advanced backwash technology is used in other refining processes for the purpose of extending

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Feed Flow rate m³/h 90 –130 Feed Preheat Temperature °C 165 -
270 Recycle Slurry m³/h 5 –12 2 Reactor Riser Outlet Temperature
°C 520 –530

Table 2.1 Comparison of high olefin fluid catalytic cracking
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Table 3.1 Refinery capacity by region 26 Table 4.1 Mass-spec
analysis of FCC feedstock 27 Table 4.2 Feedstock guidelines for

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residual FCC 28

design outlet value. The mass outlet SO₂ emissions were only 12% of the design values, while the tested removal efficiency was 99.92% vs. a design efficiency of 97.90%. Particulate emissions were also very low. The mass emission rate was approximately 24% of the design value, while the tested removal efficiency was 92.24% vs. the design

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ChemSocRev, 2015, 44, 7342-7370

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