# HumidiFi Litepaper

The liquidity engine for internet capital markets and DEX for DeFi 2.0

# Overview

over \$1B in daily volume - roughly 35% of all spot DEX activity. Unlike traditional automated market makers (AMMs), HumidiFi is a "proprietary AMM" (prop AMM) that combines on-chain execution with institutional-grade marketmaking logic. The result: tighter spreads, deeper liquidity, and execution that outperforms both DEX and CEX competitors. Built to evolve with Solana itself, Humidifi's architecture leverages every

Humidifi's mission is to make Solana the home of the world's most efficient,

### simplicity, not performance. Their static liquidity curves can't adapt in real time, creating systemic inefficiencies:

Traditional AMMs are the backbone of DeFi, but they were designed for

• Static pricing that cannot react to real-time market conditions. • Capital inefficiency with funds spread across price ranges instead of concentrated where trading happens.

• Wide spreads and poor price discovery that degrade execution quality.

• Fragmented liquidity scattered across pools, venues, and pairs.

- Lack of user segmentation prevents real users from receiving better execution and pricing than toxic arbitrage or informed bots.
- Impermanent loss and poor capital efficiency for LP's that punish depositors
- Traders face wide spreads and high slippage, yielding poor execution quality for retail users.

As DeFi has matured, these limitations have become glaring. Users want CEXlevel execution without sacrificing custody, tight spreads, and transparency.

On Solana, the market has already begun to evolve:

## • HumidiFy powers over 60% of all prop AMM activity.

with the market, not behind it. HumidiFi is the market leader, leveling up Solana to DeFi 2.0.

• Prop AMMs now account for nearly 75% of DEX volume.

The HumidiFi Solution

HumidiFi addresses the core issues of legacy AMMs by introducing an active-

• Predictive quoting: Quotes are generated from real-time market data and

#### • Dynamic inventory management: Exposure is continuously rebalanced to avoid stale quotes and mispriced risk, and to maximize capital efficiency.

• Retail users are first class citizens: Differentiates retail users from arbitrage or informed bots, thus offering these users better spreads and

- This architecture: Reduces slippage and failed transactions.
- Gives traders execution quality that feels like a CEX while remaining noncustodial.

Provides issuers with healthier secondary markets from day one.

High-Level Design

HumidiFi consists of:

1. On-Chain Programs

throughput, low latency, and parallel execution.

- Core Architecture
- HumidiFi is designed specifically for Solana's performance profile: high

predatory flow and toxic MEV which worsens retail user outcomes.

• A world-class HFT model powers an off-chain oracle that continuously

• A single oracle tick can update quotes across all supported markets.

### • HumidiFi's quoting engine is proprietary. • Open-sourcing internal market-making logic historically leads to

• Instead of blacklisting addresses, HumidiFi's engine adapts to adversarial behavior in real time, maintaining healthy spreads and execution quality.

2. Off-Chain Oracle & Predictive Model

streams market data into HumidiFi.

• Frequent, low-cost updates let HumidiFi react nearly instantly to market moves without overloading the network.

Core Components

Optimized Solana Integration • Leverages Solana's parallel execution and account model.

• Network congestion remains low even during high volatility.

Proprietary Liquidity Logic

• Instead of blacklisting addresses, HumidiFi's engine adapts to adversarial behavior in real time, maintaining healthy spreads and execution quality.

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Off-Chain Oracle & Predictive Model

• A single oracle tick can update quotes across all supported markets. • Frequent, low-cost updates let HumidiFi react nearly instantly to market moves without overloading the network.

• Leverages Solana's parallel execution and account model.

Trades are confirmed in milliseconds.

Network congestion remains low even during high volatility.

Hundreds of pools can update quotes off a single oracle event.

- HumidiFi is already integrated with major Solana routing and execution infrastructure, including:
- The team is actively expanding integrations with wallet front-ends, analytics providers, and portfolio management tools.

These integrations ensure that when users trade across Solana's ecosystem, a significant portion of that flow naturally routes into HumidiFi's liquidity.

• Oracle infrastructure • Quoting framework

This paves the way for:

partners.

• Execution quarantees

Universal Liquidity Layer

- Issuer-centric pools with custom strategies managed by dedicated desks. • Cross-chain expansion via bridged assets, preserving the same execution standards for non-native tokens.
- Conclusion

• General-purpose platform AMM services for large routers and institutional

- From passive liquidity to active, predictive liquidity
  - community, HumidiFi is not just another DEX. It is the infrastructure layer
- If you're exploring HumidiFi as a user, partner, issuer, LP, or community member, this is the foundation we're building on, and we're just getting
- started.

HumidiFi represents the next phase of DeFi on Solana: From fragmented markets to a unified liquidity laver

- that makes internet capital markets real: fast, fair, transparent, and accessible to anyone with a wallet.
- HumidiFi represents a new category of AMM, one that combines proprietary precision with open accessibility, defining how liquidity forms, moves, and

when markets move quickly, causing reduced returns on capital.

Rise of Prop AMMs

This segment has grown from <10% to >70% of total DEX share in roughly a year. Prop AMMs bring active, data-driven liquidity to Solana: liquidity that moves

liquidity framework:

less conqestion.

internal risk metrics, not just formulaic curves. • On-chain settlement, off-chain intelligence: Heavy computation happens offchain, while custody, settlement, and accounting remain entirely on Solana.

• Maintains composability with existing on-chain routing protocols unlike RFQ

 Trades are confirmed in milliseconds. • Hundreds of pools can update quotes off a single oracle event.

market data into HumidiFi. Optimized Solana Integration

Integrations, Composability & Roadmap **Current Integrations** 

• Jupiter

DFlow

• Titan

OKX Router

HumidiFi's architecture is intentionally general-purpose: • New pools can be created by the labs team. Each pool is independent but shares:

The long-term vision is clear: transform HumidiFi from a single DEX into Solana's universal liquidity layer for internet capital markets.

• From simple curves to institutional-grade market-making on-chain For traders, token issuers, liquidity providers, and the broader Solana

performs on Solana. Building internet capital markets. DeFi 2.0.

HumidiFi is Solana's largest decentralized exchange (DEX) by volume, processing on-chain markets forward.

advancement - from smart contract optimizations to validator upgrades - to push performant, and transparent markets: true internet capital markets.

Market Context & Problem