

AIR

ADVANCED INVESTMENT ROBOT

QUANTITATIVE VALIDATION REPORT

BOEING (NYSE: BA)

Simulation period: 11 Jul 2019 - 28 Jun 2021

PURE STATISTICS

BA validation snapshot

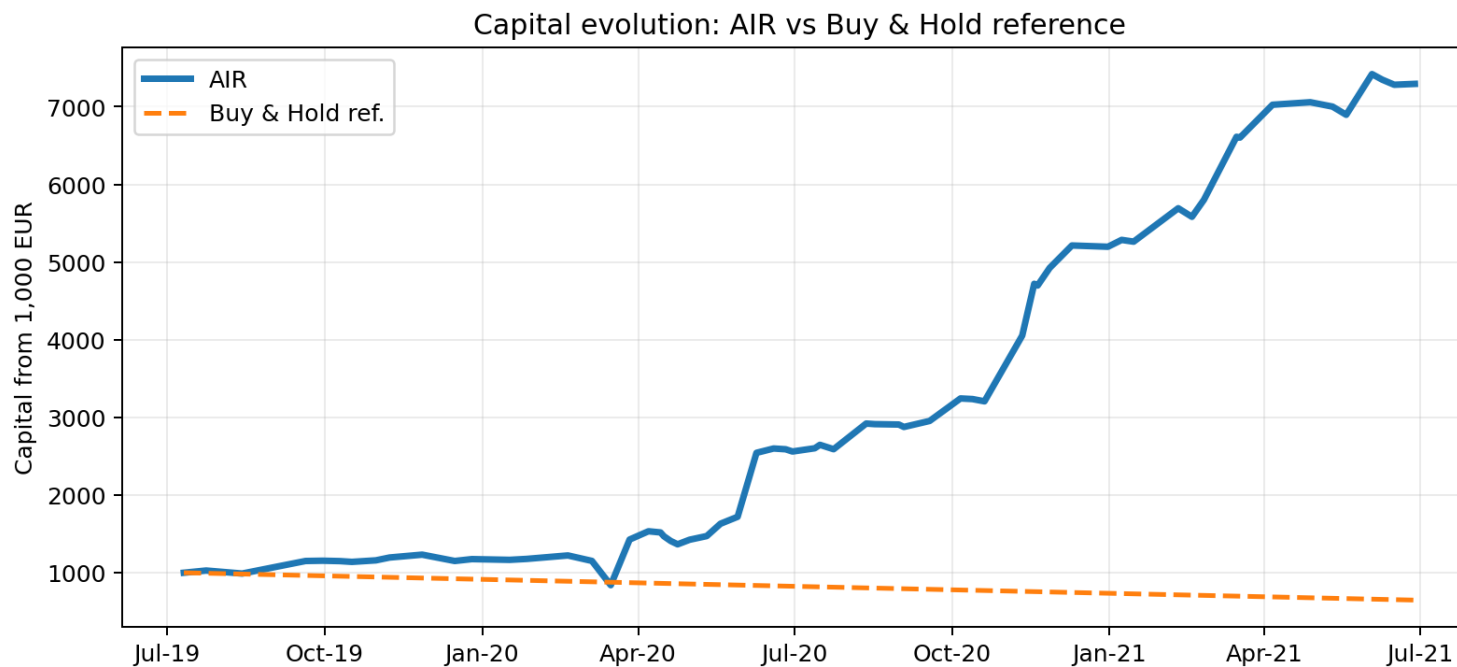
AIR transformed an initial capital of EUR 1.000 into EUR 7.293,79 across 64 historical executions. The system achieved a total compounded return of +629.4% with a maximum drawdown of -31.9%. This page summarises the core performance and risk profile extracted directly from BA.xlsx.

INITIAL CAPITAL EUR 1.000 Base case	FINAL CAPITAL EUR 7.294 Compounded	TOTAL RETURN +629.4% AIR capital curve	CAGR +174.8% Annualised	TRADES 64 Historical executions
WIN RATE +54.7% Winning trades	PROFIT FACTOR 4,28 Gross profit / loss	EXPECTANCY +3.71% Avg per trade	MAX DD -31.9% Equity drawdown	AVG HOLD 6.5 d Days in market

Executive assessment

The validation run shows a moderate win rate (+54.7%) but a strong payoff structure: average winning trades (+8.85%) are significantly larger than average losing trades (-2.50%). This reward-to-risk asymmetry drives a profit factor of 4,28 and supports the compounding profile observed in the AIR equity curve.

Capital growth from EUR 1,000



AIR FINAL CAPITAL

EUR 7.294

BUY & HOLD REF.

-35.2%

EUR 648

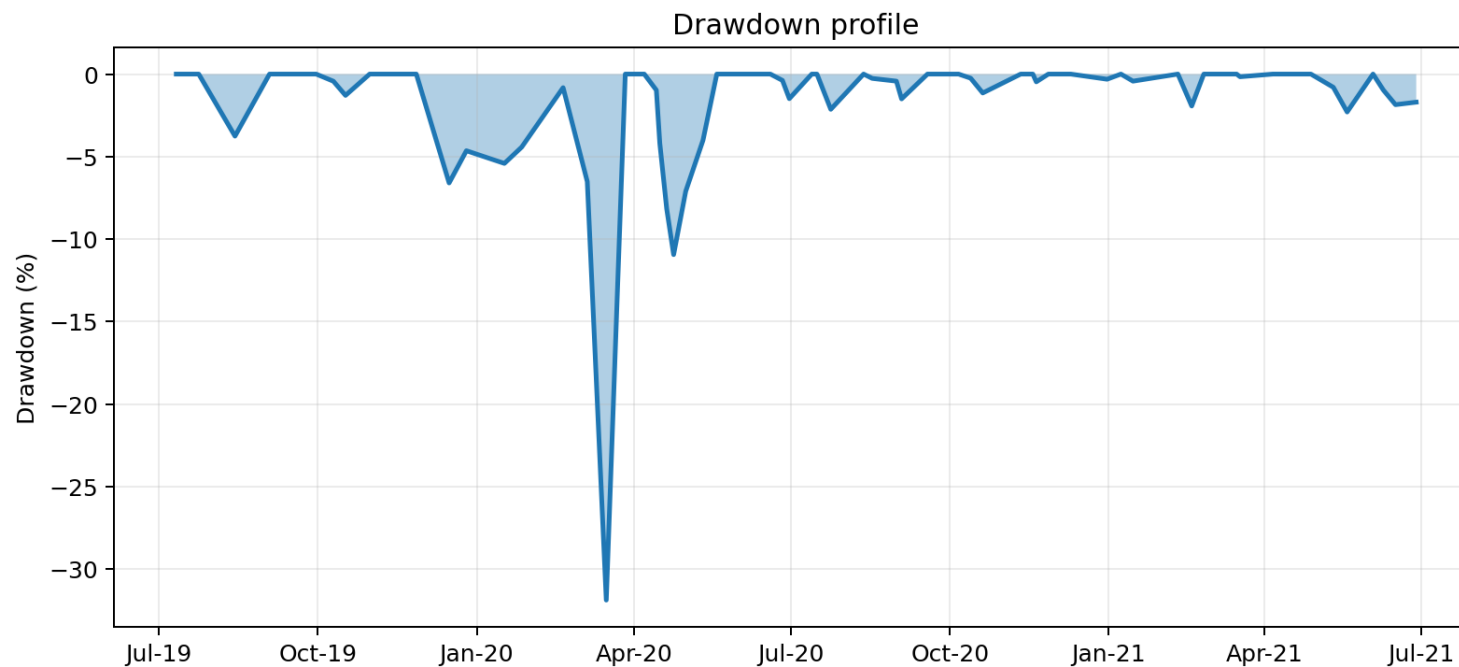
AIR OUTPERFORMANCE

+664.6%

vs workbook reference

The Buy & Hold reference is computed from the auxiliary first-open / last-close fields available in the workbook when present.

Risk profile and adverse excursions



MAX DRAWDOWN

-31.9%

Peak-to-trough

RECOVERY FACTOR

19,74

Net profit / MDD

MAR RATIO

5,48

CAGR / Max DD

ULCER INDEX

5,17

Drawdown depth

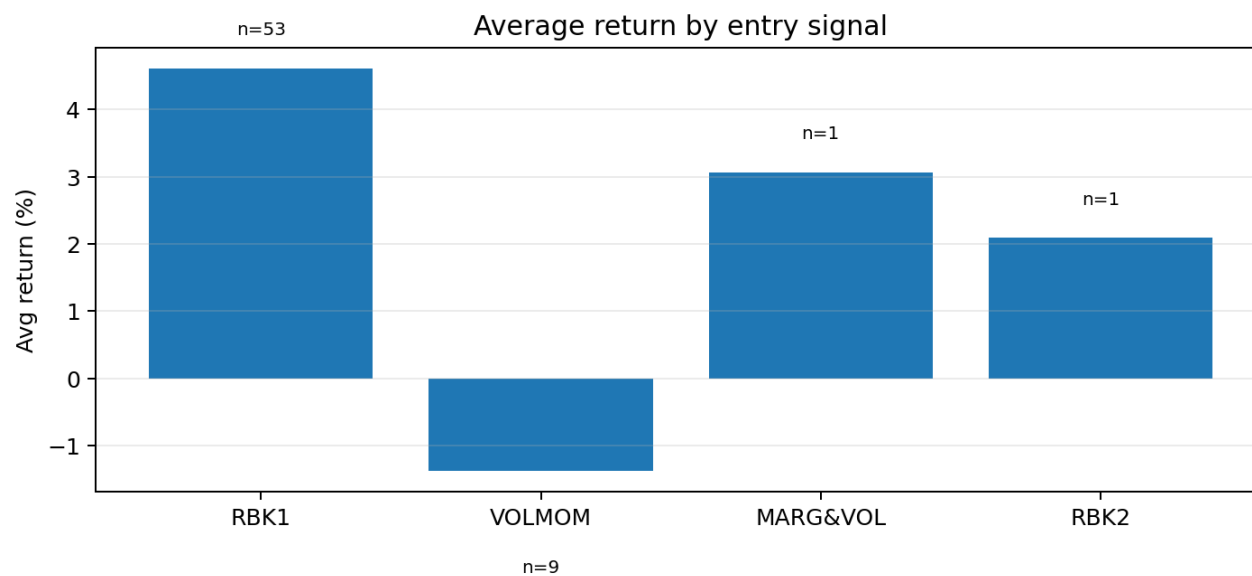
Execution statistics

Key trade metrics

Trades	64
Winning trades	35
Losing trades	29
Win rate	+54.7%
Best trade	+70.0%
Worst trade	-19.2%
Avg winner	+8.85%
Avg loser	-2.50%
Max consecutive wins	6
Max consecutive losses	4
Market exposure	+57.5%



Entry signal contribution

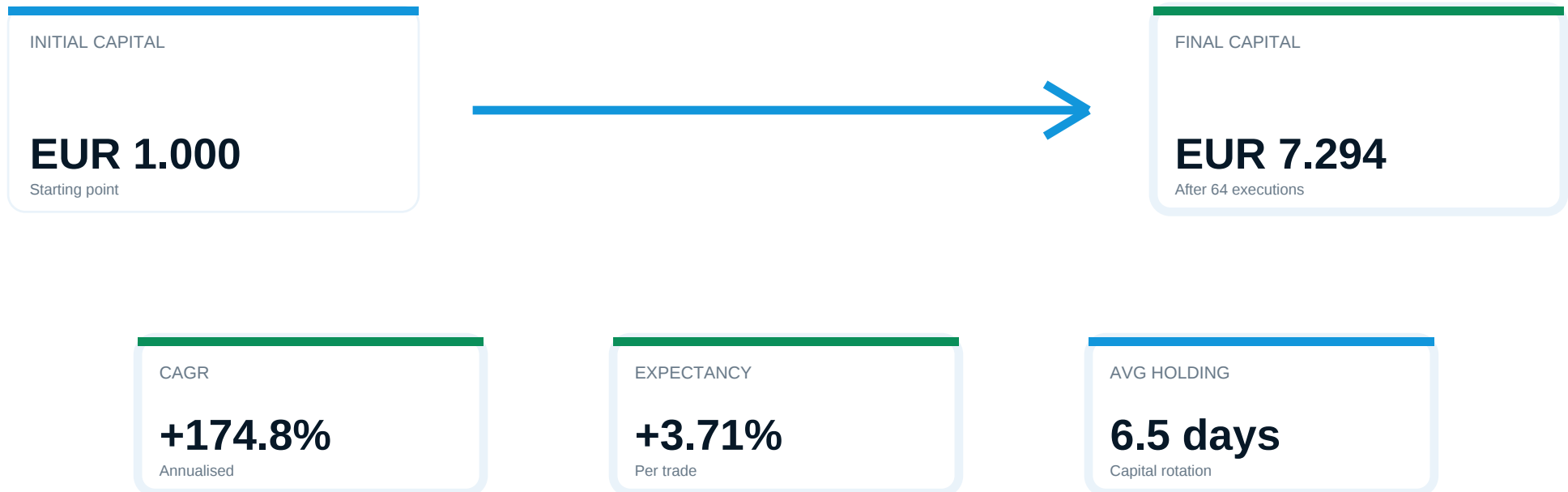


Entry signals

RBK1	n=53	+4.61%
VOLMOM	n=9	-1.38%
MARG&VOL	n=1	+3.07%
RBK2	n=1	+2.09%

Signal tables measure realised return after complete entry-exit execution. They are not predictions; they are historical behaviour diagnostics.

The snowball effect



The compounded capital column in BA.xlsx is treated as the authoritative AIR equity curve. Each completed execution updates the capital base for the next decision.

Risk-adjusted indicators

SHARPE RATIO

1,77

Approx. annualised from trade returns

SORTINO RATIO

6,84

Downside-risk adjusted

VOLATILITY / TRADE

+11.96%

Std. dev. of trade returns

DOWNSIDE DEVIATION

+3.09%

Negative-return deviation

MAX DRAWDOWN

-31.9%

Worst equity decline

EXPOSURE

+57.5%

Days invested / period days

Note: Sharpe and Sortino are approximations derived from the sequence of completed trade returns. They should be used as comparative diagnostics, not audited fund statistics.

Decision engine assessment

PROFITABILITY

Strong capital appreciation driven by high average winner size and positive expectancy.

RISK CONTROL

Drawdown exists and is material, but remains controlled relative to total compounded return.

BEHAVIOUR

The model does not require a very high win rate; profitability comes from asymmetric payoff.

SCALABILITY

The workbook structure is suitable for automated report generation across additional assets.

Statistics Decide. AIR Executes.

AIR engine data sheet

Asset	Boeing
Ticker	BA
Period	11 Jul 2019 - 28 Jun 2021
Executions	64
Data source	BA.xlsx / Hoja1
Initial capital	EUR 1.000,00
Final capital	EUR 7.293,79

Total return	+629.38%
CAGR	+174.78%
Profit factor	4,278
Expectancy	+3.707%
Max drawdown	-31.88%
Avg holding	6.45 days
Exposure	+57.52%