


Air Conditioning Unit Design

This air conditioning design features a wall-mounted unit optimized for efficient cooling. The design is suitable for both residential and commercial environments.

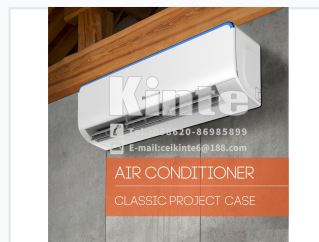
01- Customer Demand



Model	Power (W)	Capacity (L/h)	Power (W)	Capacity (L/h)	Power (W)	Capacity (L/h)
Fixed Speed	12K	1037(10%~100%)	14.00	145(170%)	14.00	145(170%)
	18K	1525(10%~100%)	18.00	210(170%)	18.00	210(170%)
	22K	1848(10%~100%)	22.00	254(170%)	22.00	254(170%)
Inverter	12K-3P	1037(10%~100%)	13.00	157(170%)	13.00	157(170%)
	18K-3P	1525(10%~100%)	17.00	217(170%)	17.00	217(170%)
	22K-3P	1848(10%~100%)	21.00	264(170%)	21.00	264(170%)

Tel.: 008620-86985899
 E-mail: cell@merhein.com

ADDITIONAL IMAGES



Service Overview

Comprehensive Appliance Development

This service provides a full-cycle solution for air conditioning unit development, covering the entire value chain from initial market research to final pilot production. The process includes industrial and technical design, functional prototyping, mold manufacturing, and process documentation. Clients receive end-to-end support including CKD supply, quality control, and assembly process training to ensure seamless manufacturing integration.

Development Lifecycle

- Customer Demand & Market Analysis
- Industrial Design Proposal
- Technical & Cooling System Design
- Functional Prototype Manufacture
- Mold Design & Manufacturing
- Process Documentation
- Standard Prototype Testing
- CKD Supply & Quality Control
- Pilot Production & Technical Support

Technical Specifications

Capacity and Efficiency Metrics

Model	Capacity (W)	Prototype Efficiency	Pilot Efficiency	Mass Prod. Efficiency
12K (Fixed)	3517	≥ 3.69	≥ 3.69	≥ 3.55
18K (Fixed)	5275	≥ 3.69	≥ 3.69	≥ 3.55
22K (Fixed)	6448	≥ 3.69	≥ 3.69	≥ 3.55
12K-3* (Inverter)	3517	≥ 3.69	≥ 3.69	≥ 3.55
18K-3* (Inverter)	5275	≥ 3.69	≥ 3.69	≥ 3.55
22K-3* (Inverter)	6448	≥ 3.69	≥ 3.69	≥ 3.55
12K-5* (Inverter)	3517	≥ 4.69	≥ 4.69	≥ 4.55
18K-5* (Inverter)	5275	≥ 4.69	≥ 4.69	≥ 4.55