

TICA · TCA SERIES

TICA Air Cooled Scroll Chiller

Modular air-cooled scroll chiller, 10–130 TR, up to 16 modules on one controller.

Origin: TICA, Nanjing, China · Category: Electric Chillers



COOLING

CAPACITY

10–130 TR

REFRIGERANT

R-410A

POWER SUPPLY

**415 V / 3 ph /
50 Hz**

MODULES

**up to 16 per
group**

AMBIENT

RATING

up to 45 °C

WARRANTY

12 months

Overview

TICA TCA modular chillers stack 30 kW–130 kW modules side by side, letting a factory add capacity as production grows without replacing the plant. Each module has its own scroll compressors and coil, so a fault takes out one module rather than the whole plant.

MHM supplies TICA as the value option for small and mid-size plants, with heat-pump variants available for winter hot-water duty.

Design features

Hermetic scroll or semi-hermetic screw compressors

Low-vibration compressors with capacity staging keep part-load efficiency high across textile and pharma duty cycles.

Microprocessor controller with Modbus RTU

Leaving-water setpoint, alarms and run hours are readable on the panel and shared to a BMS over RS-485.

Electronic expansion valve

Stable superheat control at 25–100% load and during Dhaka summer ambient swings up to 42 °C.

Hydrophilic-coated condenser fins

Corrosion-resistant fins with 40% longer service life in humid, dusty rooftop conditions.

Phase and pressure protection

Phase-loss, reverse-phase, high/low pressure, anti-freeze and flow-switch interlocks as standard.

Factory run-tested

Every unit is charged, run-tested and tagged with a test certificate before dispatch.

Typical applications

- Small garment factories
- Restaurants and hotels
- Printing and packaging
- Laboratory cooling

Technical data — TCA Series

Model	Capacity (TR)	Capacity (kW)	Input power (kW)	Compressors	L × W × H (mm)	Weight (kg)
TCA-10	10	35	11.8	1 × scroll	1300 × 900 × 1750	420
TCA-18	18	65	21.6	2 × scroll	2000 × 1000 × 2000	780
TCA-37	37	130	43.5	4 × scroll	2200 × 2200 × 2250	1450
TCA-74	74	260	86.4	8 × scroll	4400 × 2200 × 2250	2900
TCA-130	130	455	151.0	12 × scroll	6600 × 2200 × 2250	5000

Ratings at standard conditions stated in the facts above. Intermediate capacities, alternative voltages and special options on request; MHM selects the model for your load, ambient and water conditions.



Selection, installation and after-sales by MHM Engineering

Send your capacity, ambient / water conditions and site drawings to sales@mhmmachineries.com or call +880 1321-206755. Every TICA unit is commissioned by our own engineers and covered by an annual maintenance contract with genuine spares stocked in Dhaka.