

APT INDUSTRIAL CHILLER

INDUSTRIAL COOLING
REFERENCE DOCUMENT

<https://applied-chiller.com/>



10HP Mobile Industrial Chiller for Temporary Production Line Cooling

Industrial Cooling Reference for Flexible Machine-Side Cooling Support

MOBILE CHILLER

10HP REFERENCE

TEMPORARY COOLING

CASTER-MOUNTED

CASE REFERENCE

Project Snapshot

10HP mobile industrial chiller direction for a temporary production line cooling project.

APPLICATION Temporary Production Line Cooling	INDUSTRY Manufacturing Workshop
COOLING TARGET Equipment testing, temporary cooling support, and maintenance backup	CHILLER DIRECTION 10HP Mobile Industrial Chiller
REVIEW FOCUS Cooling load, runtime, hose length, pump pressure, power supply, movement route, connection method	



ENGINEERING REVIEW

Engineering Matrix

ENGINEERING ITEM	WHY IT MATTERS	DATA TO CONFIRM
Cooling Load	Temporary support duty determines whether 10HP is suitable as reference direction.	Equipment load during testing, maintenance, or backup operation.
Runtime	Continuous or intermittent use affects practical mobile chiller configuration review.	Expected working hours and support duration.
Hose Length	Longer hose runs increase flow loss and installation complexity.	Required hose distance between chiller and equipment.
Pump Pressure	Mobile circuit still needs enough head to overcome loop resistance.	Hose loss, elevation change, filters, and equipment resistance.
Power Supply	Temporary deployment must match available site power condition.	Voltage, frequency, and connection type.
Movement Route	Caster-mounted cabinet direction depends on floor condition and access path.	Floor surface, route width, and movement frequency.
Connection Method	Quick-connect or standard hose layout affects setup efficiency.	Required inlet, outlet, and cable arrangement.

Reference direction only. Final engineering review should be completed before quotation and final model confirmation.

COOLING CHALLENGE

Process Review

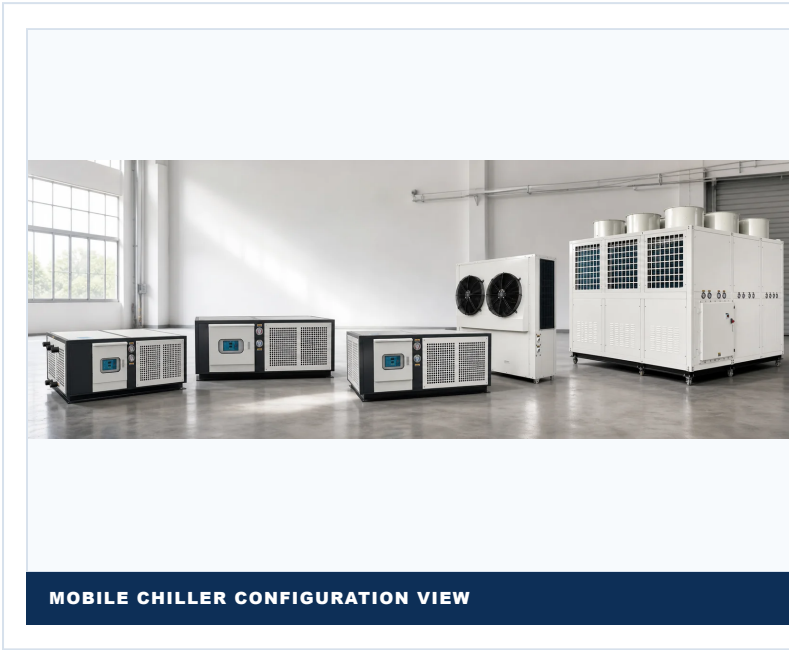
- Temporary cooling support often requires fast deployment near the production line.
- Movement route, caster base, and hose connection arrangement affect actual usability.
- Pump pressure must still overcome hose length and temporary loop resistance.
- Electrical connection and runtime expectation should be reviewed before final selection.

RECOMMENDED DIRECTION

A 10HP mobile industrial chiller was considered as the preliminary direction for this temporary production line cooling project. Final selection should be confirmed according to actual cooling load, runtime, hose length, pump pressure, power supply, movement route, and connection method.

10HP Mobile Chiller Configuration

Main configuration points for a temporary production line cooling reference project.



- 01

Caster-Mounted Cabinet

Mobile cabinet direction supports flexible deployment inside the workshop.
- 02

Flexible Hose Connection

Temporary hose arrangement is reviewed according to route and machine access.
- 03

Tank and Pump

Built-in circulation supports short-term or mobile process cooling duty.
- 04

Temporary Cooling Support

Project direction focuses on testing, maintenance backup, and flexible layout.

TECHNICAL REFERENCE

COOLING METHOD Mobile air cooled process cooling	CAPACITY DIRECTION 10HP reference	TYPICAL APPLICATION Temporary line cooling / equipment testing / maintenance backup	COOLING CIRCUIT Closed-loop process water
OUTLET TEMP. Project-defined, often 7-25 C	PUMP SELECTION By required flow and head	POWER SUPPLY 220-460V, 50/60Hz by destination	FINAL REVIEW Load / runtime / hose length / pump head / movement route

Review Note

Final component selection should be confirmed according to actual cooling load, runtime, hose length, pump head, target water temperature, power supply, movement route, and connection method.

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