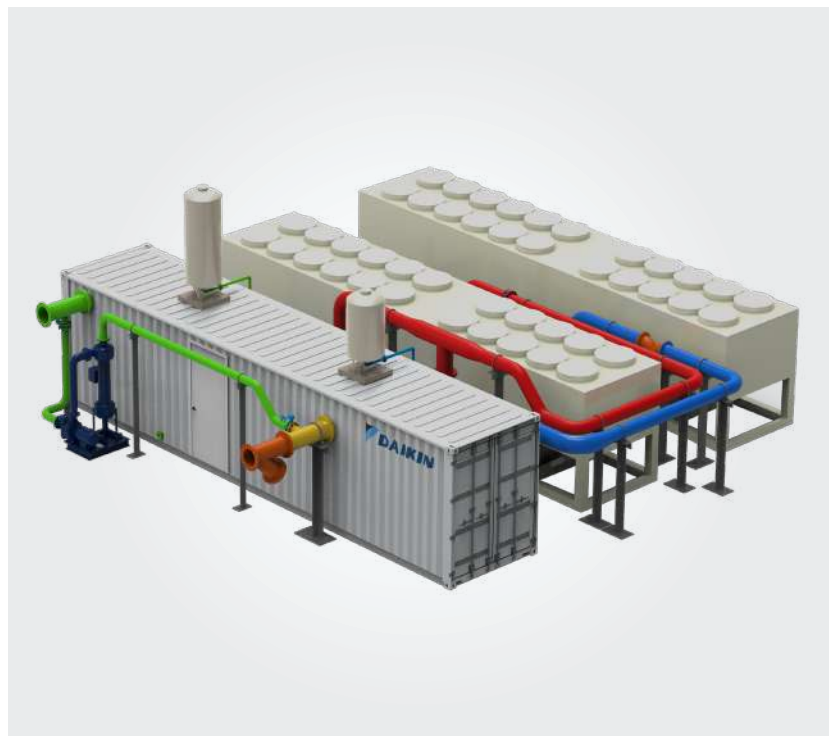




Pre-fabricated

# Modular Solutions

Engineered to meet  
your needs



Comprehensive offsite solutions for commercial and industrial projects

Cooling | Heating | Refrigeration



# Single source responsibility

Engineering | Design | Fabrication | Installation |  
Commissioning | Operation and Maintenance

Pre - fabricated modular solutions provide much needed flexibility for various construction projects of the public and private sector. It does not only solve space or real estate issues, but also ensures timely delivery of heating and cooling needs irrespective of changes in the overall construction timeline.

## High-quality design, engineering and construction

Every step of the process critical. At Daikin, we are committed to understanding and creating effective designs that translate our client's vision. From pre-engineering to installation and commissioning, our practices are in line with quality standards and exceed those in the field.

## Reduce project cost

Modular solutions provide better performance whilst eliminating inefficient site activities associated with a conventional plant, reducing installation time and cost. This results not only in faster project delivery, but also the efficient use of valuable land without compromising maintenance and service access.



# Design through operational responsibility



When building for today with an eye toward tomorrow, pick the scalable solution. Our team works directly with you to design a central plant that is the right solution for your building demands today and can accommodate expansion in the years ahead. Everything is included, from cooling tower structure, piping and wiring to pipe insulation and valve tags to provide you a complete solution.



Each modular central plant is custom designed and fabricated in our production facility by our certified team for your specific project. Engineered with the most efficient and highest performing components and materials, your MCP is ready to deliver savings. Before shipping to your site, each MCP is fully assembled and tested in the factory as a complete central plant.



We understand project schedule constraints. Whether you need to complete the project prior to the school year or have a mission-critical operation and can't afford downtime, we match your requirements. Our team of experts mobilizes to provide a quality-engineered and tested MCP installed at your project site to meet even the most demanding project and commissioning schedules. Your central plant will be operational exactly when you need it.

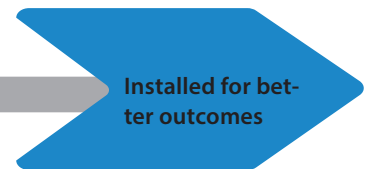




Our team coordinates shipment, delivery, and reassembly of your central plant. This approach reduces coordination and project management effort compared to site-built central plants.



Our team has you covered from product design, production, testing to installation, reassembly, and start-up. Our team coordinates all aspects of your central plant execution, reducing coordination effort, yielding better outcomes and easing anxiety. This allows you to focus your efforts on your business.



Your project is brimming with moving parts; your central plant doesn't have to be. Our MCP solutions integrate the highest efficiency components through a comprehensive design, delivery process, all coordinated by a single team. Breathe easier with a single go-to resource for your project.



Daikin modular central plants are designed specifically to support your needs today and for the future, utilizing highly efficient components; expertly produced, installed and started; and supported over its life. You can rest assured that your central plant will provide you many years of reliable operation.

# Types of Modular Solutions

## Equipment / Skids

Streamlined integration of components

- › Versatile designs
- › High quality construction
- › Simplified installation with less onsite labor

## Types

- › Energy transfer station skids
- › Pumping skids
- › VRV+ AHU skids
- › Air-cooled chiller skids



Air-cooled Chiller Skid



Custom Process Cooling/Heating Skid



Energy Transfer Station Skids



Pump Skids



Containerized Chiller / Boiler



Mobile Chiller Plant

## Containerized Solutions

Plug-and-play designs ideal for small HVAC and refrigeration systems

## Benefits

- › Optimized footprint
- › Easily transportable
- › Limited civil work
- › Ideal for use in remote locations like construction sites and retrofit projects



Pumping Application



Process Cooling Plant with Air-cooled Chillers



# Modular Chiller Plant



Interior



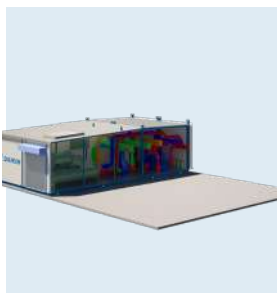
Exterior

## Integrated modular capability

- › Pre-engineered design customized for your application
- › Single source responsibility from design to startup
- › Manufactured off-site in a controlled environment
- › Uses standardized quality-controlled components
- › Optimized for overall system performance
- › Pre-tested prior to shipping
- › Movable, expandable, scalable
- › Shorter construction lead times
- › Minimal on-site labor required to install

## Modular and Scalable Solutions

You can build your chiller plant in phases to suit your needs with our flexible solutions.



Phase 1

Phase 2

Phase 3

# Actual MCP Projects



2500<sub>TR</sub>



3000<sub>TR</sub>



1500<sub>TR</sub>

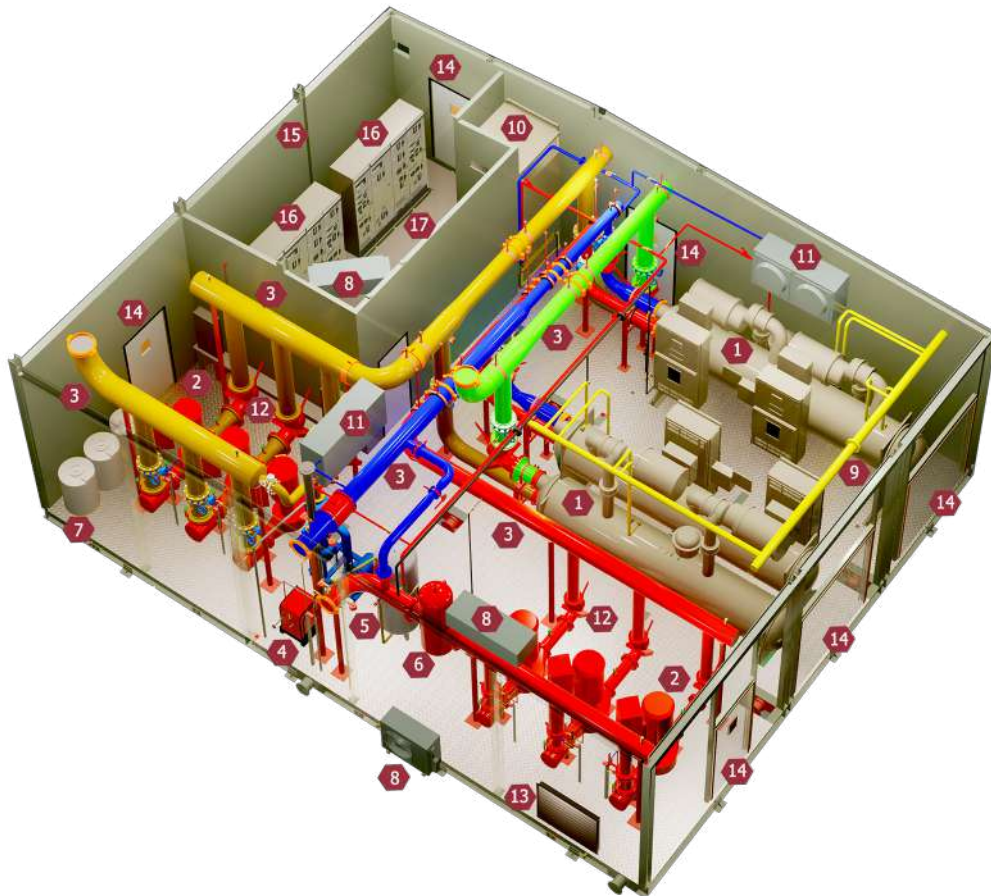


1600<sub>TR</sub>





# MCP Components



## Modular Chiller Plant Components

- |    |  |     |                    |
|----|--|-----|--------------------|
| 1. | Chiller                                  | 10. | Air handling unit  |
| 2. | Pumps                                    | 11. | Fan coil unit      |
| 3. | Chilled water and condenser water piping | 12. | Triple duty valves |
| 4. | Pressurization unit                      | 13. | Fresh air intake   |
| 5. | Expansion tank                           | 14. | Access door        |
| 6. | Air separator                            | 15. | Electrical room    |
| 7. | Condenser water chemical treatment tank  | 16. | LV MCC             |
| 8. | Standby HVAC                             | 17. | Raised floor       |
| 9. | Refrigerant relief pipe                  |     |                    |



Innovative solutions to serve your needs

## Market Applications

Effective solutions that will save you time and money, wherever your site needs to be.

Email us at [mcp@daikinmea.com](mailto:mcp@daikinmea.com) to learn more.

Replacement / Expansion Projects



Turbine Intel Air Cooling (TIAC)



Data Centres



Refrigeration Industry



Industrial Process / Oil and Gas



District Cooling / Temporary Cooling



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