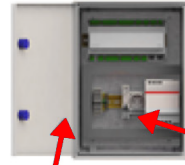


# INTELLIGENT PUMPING SYSTEMS



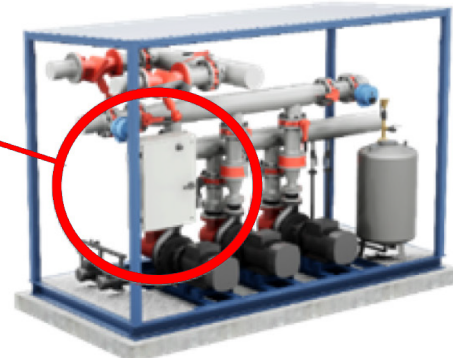
# Optimized pump systems for chilled & condenser water loops

## > Air cooled chillers



## > Intelligent pump manager

Pump Sequencing  
Pump Staging  
Pump Speed Control  
Header by-pass valve control



## > Daikin pump skid

## > Water cooled Chillers



## > Daikin Microtech 4 with built-in chiller plant manager

Suitable for multiple pumping applications:

- Variable-Primary
- Primary-Secondary
- Variable-Primary Variable-Secondary

Directly Interface with the Chiller built-in plant manager.

Single point responsibility for Chiller + Controls + Pumps Backed up by Daikin Warranty and Service Network

## BENEFITS

1. Single electrical connection
2. Simplified Installation, Startup & commissioning
3. Compact footprint
4. Integrated control & Instrumentation
5. Fully adaptable to your application

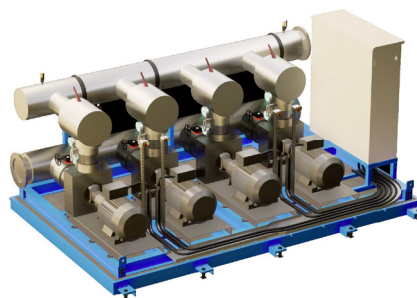
## STANDARD DESIGN INCLUDES:

- Base mounted, end suction pumps
- Daikin Intelligent Pump Manager Controller
- Suction diffusers
- Triple duty valves
- Manual Gauges
- Pump common discharge header
- Pump common suction header
- Lifting lugs

All Daikin skids are assembled on a steel base with or without enclosure. They arrive on site pre-wired, pre-piped and pre-commissioned, eliminating the scheduling challenges and cost overruns of a site-built system.

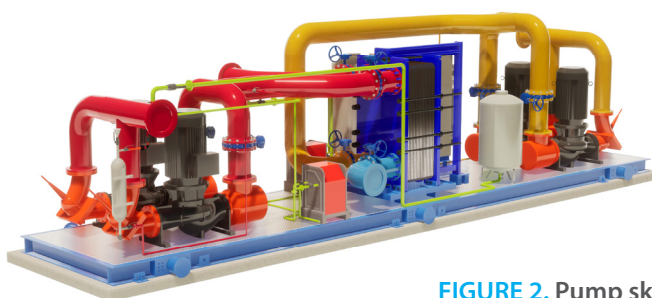
## TECHNICAL DATA

| System Conditions      | Range     |
|------------------------|-----------|
| System head (bars)     | 3 to 6    |
| System flow rate (lps) | up to 380 |
| Number of pumps        | 2 to 5    |
| Motor power (kW)       | 10 to 200 |



**FIGURE 1.** Standard Pump Skid

| Optional Components                        |
|--|
| Vertical inline or split case pumps        |
| Variable frequency drives (VFD)            |
| Power distribution                         |
| Intelligent Pump Manager & instrumentation |
| Air separator                              |
| Pressurization Unit                        |
| Expansion tank                             |
| Suction diffusers                          |
| Check valves                               |
| Chemical pot feeder                        |
| Glycol feeder                              |
| Buffer tank                                |
| Plate Heat Exchanger                       |
| Inertia Base                               |
| Insulation                                 |
| Cladding                                   |



**FIGURE 2.** Pump skid with / Optional components options

## SKID DIMENSIONS

### 2-Pump Systems

| Header Size (mm) | L (m) | W (m) | H (m) |
|------------------|-------|-------|-------|
| 150              | 2.1   | 2.6   | 2.3   |
| 200              | 2.1   | 2.6   | 2.3   |
| 250              | 2.5   | 2.7   | 2.5   |
| 300              | 2.5   | 3.3   | 2.5   |

\*Dimensions shown for standard skid systems

### 3-Pump Systems

| Header Size (mm) | L (m) | W (m) | H (m) |
|------------------|-------|-------|-------|
| 200              | 3     | 2.6   | 2.3   |
| 250              | 3.5   | 2.6   | 2.3   |
| 300              | 3.7   | 2.7   | 2.5   |
| 350              | 3.7   | 2.7   | 2.5   |
| 400              | 3.7   | 3.3   | 2.5   |

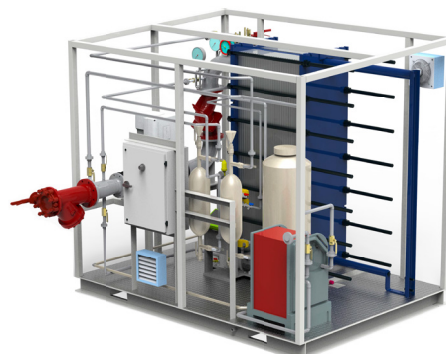
## 4-Pump Systems

| Header Size (mm) | L (m) | W (m) | H (m) |
|------------------|-------|-------|-------|
| 250              | 4     | 2.6   | 2.3   |
| 300              | 4.5   | 2.6   | 2.3   |
| 350              | 4.5   | 2.6   | 2.3   |
| 400              | 4.9   | 2.7   | 2.5   |
| 450              | 4.9   | 3.3   | 2.5   |

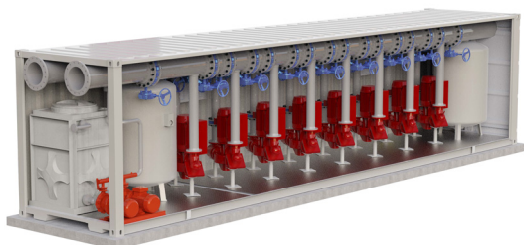
Custom designs also available:



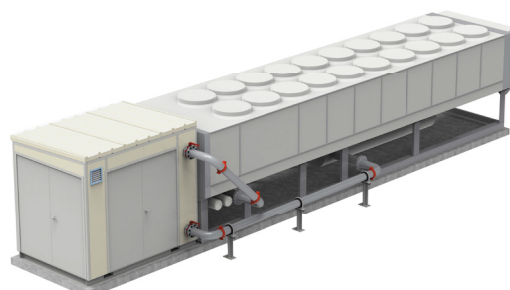
> With Canopy



> Energy Transfer Stations



> Container



> Sandwich panel construction

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