Intelligent Controller v6.02
Take control of your world
Intelligent Touch Controller

Centralized and Advanced VRV Control

Up to 64 Indoor Unit Groups (128 actual Indoor Units) can be monitored and controlled with individual Cool and Heat Setpoints, Setpoint Range Limitation, Setback Setpoints, and Auto-changeover to meet your expectations and project requirements. Up to 128 Indoor Unit Groups (256 actual Indoor Units) can be monitored and controlled with the addition of the Optional DIII-Net Plus Adapter.

Integrates and/or interlocks sensors, switches, dampers, fans, pumps, and lighting with Daikin Indoor Units.

Web Access and Alert E-mail

Allows daily remote monitoring and control with the Web/E-mail Software option that can be accessed via the facility’s Local Area Network or your Internet connection. Sends Error E-mail to mobile device with the optional Web/E-mail Software option.

Tenant Billing

Determines energy consumption of shared condensing units based upon tenant (Indoor Unit) demand.

Detailed & Easy Monitoring and operating your VRV system is easy

Just a touch on the screen brings up icons that make it easy to understand all the information concerning the control of the system. The Intelligent Touch Controller enables an operator to conduct a variety of quick and easy operations, create settings, and access screens to confirm the details set for each Zone or Group.

Features

- Advanced configuration and greater application flexibility with features such as dual setpoints, setback setpoints, setpoint range, and Auto-changeover.
- All are configurable and now available via the web with the Web/E-mail Software option activation.

Monitoring and Controlling Points/Items

<table>
<thead>
<tr>
<th>Zone</th>
<th>Group (Indoor Unit Group)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zone Schedule</td>
<td>✓</td>
</tr>
<tr>
<td>On/Off</td>
<td>✓</td>
</tr>
<tr>
<td>Operation Mode</td>
<td>✓</td>
</tr>
<tr>
<td>Individual Cool and Heat Setpoints</td>
<td>✓</td>
</tr>
<tr>
<td>Fan Speed</td>
<td>✓</td>
</tr>
<tr>
<td>Airflow Direction</td>
<td>✓</td>
</tr>
<tr>
<td>Button Prohibit</td>
<td>✓</td>
</tr>
<tr>
<td>Filter Sign Reset</td>
<td>✓</td>
</tr>
<tr>
<td>Setpoint Range Limitation (with Min C/H setpoint differential)</td>
<td>✓</td>
</tr>
<tr>
<td>Setback Setpoints (with setback recovery differential)</td>
<td>✓</td>
</tr>
<tr>
<td>Auto-changeover</td>
<td>✓</td>
</tr>
<tr>
<td>Applied Schedule</td>
<td>✓</td>
</tr>
</tbody>
</table>
Temperature Control

Individual Cool and Heat Setpoints
- Temperature control is achieved by individual Cool and Heat Setpoints in Cooling and Heating modes, and Auto-changeover.

Setpoint Range limitation
- Cool and Heat Setpoint ranges can be set between 60˚F and 90˚F for occupied operation, with configurable minimum differential between 0˚F – 7˚F, or single setpoint mode.

Setback control when space is unoccupied
- Setback Cool and Heat Setpoints can be set between 40˚F and 95˚F.
- During unoccupied periods with setback enabled, the Indoor Unit is off and is energized once the setback setpoint has been reached, and de-energized based upon configurable recovery differential (2˚F – 7˚F).

Auto-changeover

The Intelligent Touch Controller V6.02 and Auto-changeover switches the Indoor Unit’s mode (Cool or Heat) individually or by Zone according to the room temperature, the setpoint, or by averaging room temperatures and setpoints.

Scheduling
- Select between: the individual 7-day, 5+2 (weekday + weekend), or 5+1+1 (weekday + Saturday + Sunday) weekly schedule pattern settings
  - Up to 8 scheduled events per day
- Individual occupied Cool and Heat Setpoints
  - Individual Cool and Heat Setpoints eliminate the need for seasonal scheduling
- Able to schedule Setback Cool and Heat Setpoints during unoccupied conditions
  - 2 hr override setting available via scheduling

VRF INDUSTRY FIRST!

Individual Cool/Heat Setpoints eliminate the need for seasonal schedule
- Repeatable yearly calendar
  - Able to set 40 exception days to the normal schedule
  - Set exception days by specific date (January 1) or by day of the week and month (floating holiday) (1st Monday in September)
Web Browser Software (optional)

Monitor and control your VRV System via your Internet browser
− Expanded web access configurations available for configurable client access
− E-mail notification of system and equipment maintenance and/or issues

Ancillary Equipment Control

− An interlock function via the Digital Input (DI) and Digital Input/Output (DIO) units allow for control of multiple ancillary units (ERV, lights, fans, dampers, occupancy sensors, etc.). Indoor Unit operation (On/Off, operation mode, setpoint, and remote controller prohibit) can be controlled based upon ancillary unit operation.
− Ancillary equipment can be configured to stand alone and be controlled via the Intelligent Touch Controller display or Scheduling function.

Applications

− Office or school where setback schedule is required
− Hotels or nursing homes where individual auto-changeover is required (with VRV Heat Recovery system)
− Residential with weekly schedule
− Web access for easy maintenance
− Good as a backup controller for a BACnet® or LONWORKS® BMS integration - maintain basic VRV control functions in the event a BMS system is not ready or in failure
− Crestron® Interface with HTTP option - Expands control options available to include control and monitoring from a smart phone such as the iPhone® and other wireless interfaces

Remote Monitoring / Maintenance

User’s Computer
LAN/Internet
Network Switch/Router
Ethernet
Intelligent Touch Controller
Outdoor Unit
Indoor Units
Icon View – Zone / Group
List View – Zone / Group
Schedule Settings
Scheduling Pattern Change

8 Sets of
- Status input
- Alarm input

DI Unit

4 Sets of
- Output
- Status input
- Alarm input

DIO Unit

Max 8 Input Channels
Key Card
Occupancy Sensor
Damper

Ancillary Equipment

Max 4 I/O Channels

DIO Unit

Intelligent Touch Controller
Outdoor Unit
Indoor Units

Network/Internet

Property Manager / Engineering

Unified Monitoring and Control

*Each Intelligent Touch Controller requires the Web/E-mail Software option for monitoring and control.
ModelItem Description
Daikin Industries, Ltd.
Domestic Group
Certificate Number: EC99J2044

Daikin Industries has received ISO 14001 certification for all its locations and subsidiaries in Japan.

The air conditioners manufactured by Daikin Industries have received ISO 9000 series certification for quality assurance.

The air conditioners manufactured by Daikin Industries have received ISO 14001 certification for environmental management.

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ModelItem Description
DCS601C71
AC 24V 60Hz
10 W maximum (20VA or more transformer)
32˚ F to 104˚ F
Less than 85% RH (non condensing)
5 25/32 x 9 1/16 x 4 7/32
5.7 inches/QVGA 320x240/4,096
10 bit encoded analog input
64 addressed Indoor Unit Groups (maximum 128 actual Indoor Units)

DCS601A72
AC 24V 60Hz
5 W maximum (20 VA or more transformer)
14˚ F to 104˚ F
20% to 90% RH (non condensing)
7 15/32 x 6 3/16 x 1 21/32
-1 (RJ-45) 32 ft cable included
64 addressed Indoor Unit Groups (maximum 128 actual Indoor Units)

Daikin’s products are subject to continuous improvements. Daikin reserves the right to modify product design, specifications, and information in this brochure without incurring any obligations.

Options for Intelligent Touch Controller

<table>
<thead>
<tr>
<th>Item</th>
<th>DC500A71</th>
<th>Power Proportional Distribution (PPD)**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Option Software</td>
<td>DCS002A71</td>
<td>WebE-mail Software (Java plugin - JSE 5.0 or later is required)</td>
</tr>
<tr>
<td></td>
<td>DCS004A71</td>
<td>HTTP Interface software (for Home Automation System Integration)</td>
</tr>
<tr>
<td></td>
<td>DCS007A51</td>
<td></td>
</tr>
<tr>
<td>Unification Adapter</td>
<td>DCS302A72</td>
<td>Unified Start/Stop through outside signal</td>
</tr>
<tr>
<td>Installation box</td>
<td>KJB411A</td>
<td>For wall mounted installation of Intelligent Touch Controller</td>
</tr>
</tbody>
</table>

* Pulse input from KWh meter requirements: 1 pulse to 1KWh or 10KWh. Pulse width must be between 40-400 msec. Non voltage, normally open semi-conductor type.

** The Power Proportional Distribution (PPD) feature supplies the user with a reasonably calculated apportionment of the total power consumption by the Daikin air-conditioning system. Because input to the PPD includes measured pulses in the refrigerant system and because the air-conditioning system includes a number of variables, including operating temperatures and pressures, piping length, heat exchange rates and others, no meter-type apportionment of individual users’ consumption can be made. However, the PPD feature provides an apportionment methodology that uses highly advanced technology applied to the many variables in an air-conditioning system.

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