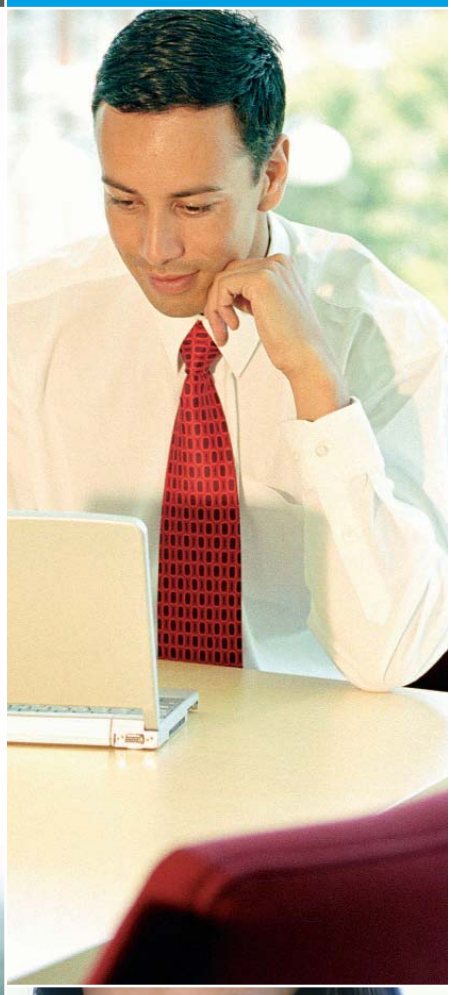
DAIKIN
AIR CONDITIONING

Daikin Airconditioning UK Ltd

intelligent touch Controller

Allows detailed and easy monitoring and operation of VRV Systems

(maximum 2 x 64 groups / indoor units)



Daikin Airconditioning UK Ltd,
Weybridge Head Office

Daikin Airconditioning UK Ltd

Daikin Airconditioning UK Ltd is a wholly owned subsidiary of Daikin Europe N.V.. The focus of our business is sales and distribution of Daikin air conditioning products whilst fully utilising the advantage of our European Group Manufacturing Division. Daikin Airconditioning UK Ltd is a nation wide organisation with its headquarters in Weybridge, Surrey. Strategically situated regional sales offices achieve efficient response combined with administration, distribution and field quality services departments.

Daikin Europe N.V.

Daikin Europe N.V. is the European sales and manufacturing headquarters responsible for distribution of air conditioning equipment for residential, commercial and industrial use. As a 100% subsidiary of Daikin Industries Ltd (Japan), a global leader in the air conditioning systems industry, its main focus is to respond to the evolving requirements of customers throughout Europe, Russia, Africa and the Middle East.

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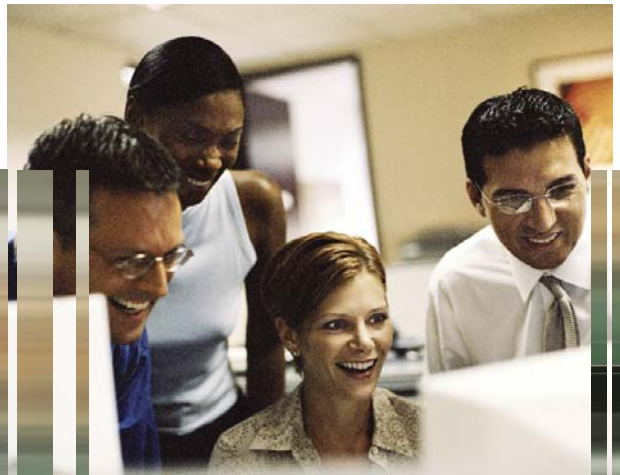


Main Features

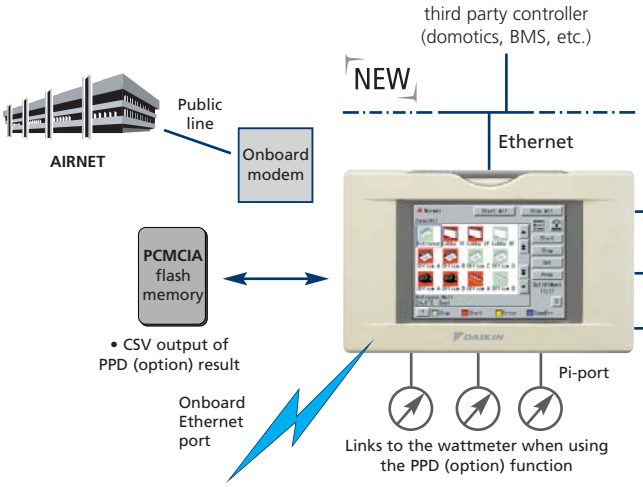
1 Languages

- English
- French
- German
- Italian
- Spanish

2 Management

NEW • Web application & internet compatibility
  - Monitoring & control according to user
  - Remote monitoring & control of more than one building
  - Remote monitoring & control of more than one building via internet
- Power Proportional Distribution: PPD (option)
- Easy management of electricity consumption

NEW • Enhanced history function



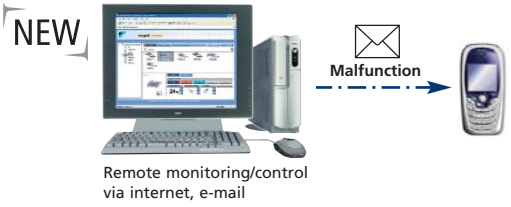
3 Control

NEW • Individual control (set point, start/stop, fan speed, etc) (Max. 2 x 64 groups/indoor units)

NEW • Enhanced scheduling function (8 schedules, 17 patterns)
- Yearly schedule
- Flexible grouping in zones
- Automatic cooling/heating changeover
- Temperature limit
- Heating optimization
- Fire emergency stop control

NEW • Interlocking control
- Increased HRV monitoring and control function

NEW • Password security: 3 levels (general, administration & service)
- Quick selection & full control
- Simple navigation

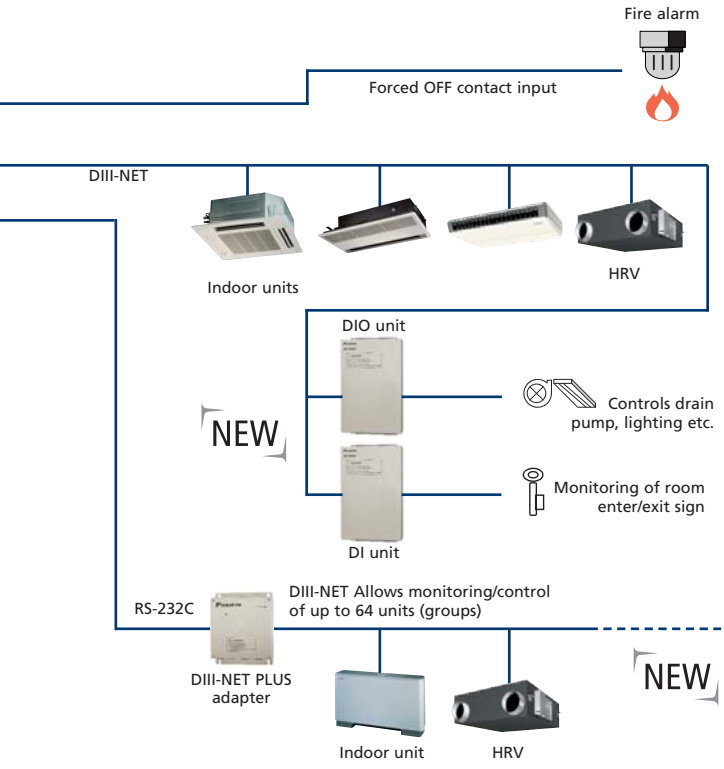


4 MONITORING

- Visualisation via Graphical User Interface (GUI)
- NEW Icon colour display change function
- Indoor units operation mode
- NEW Error messages via e-mail (option)
- Indication filter replacement
- Multi PC

5 COST PERFORMANCE

- Labour saving
- Easy installation
- Compact design: limited installation space
- Overall energy saving



6 CONNECTABLE TO:

- VRV
- HRV
- Sky Air (via interface adapter)
- Split (via interface adapter

7 SYSTEM LAYOUT

- NEW Up to 2 x 64 indoor units can be controlled
- NEW Onboard Ethernet port (web + e-mail)
- NEW Digital i/o contacts (option)
- Touch panel (full colour LCD via icon display)

8 OPEN INTERFACE

- NEW Communication to any third party controller (domotics, BMS, etc.) is possible via open interface

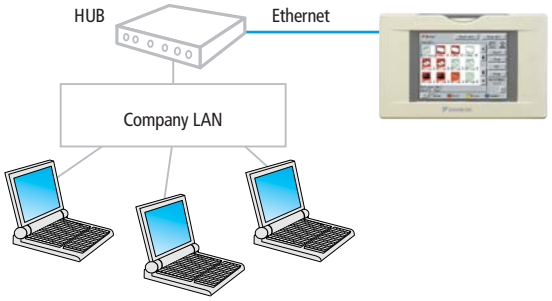
Management

NEW 1 Web Application and Internet Compatibility

Enables monitoring and control via the Internet from any PC worldwide with your standard browser. You do not need to be on site to control your air conditioning system. There are 3 different options by which control can also be combined.

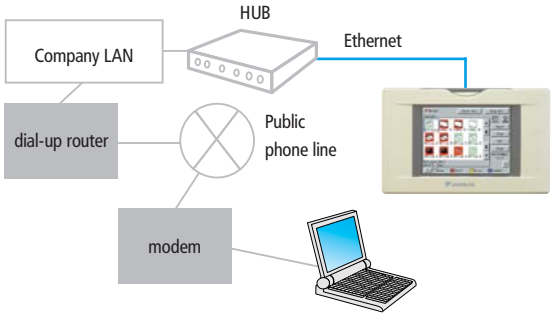
A. Connection between Company LAN and intelligent Touch Controller

Operating a monitoring control system over a company LAN using a company PC



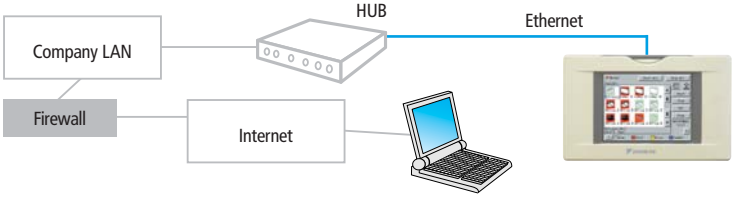
Network setup is necessary to make connections from a company LAN. Consult the administrator of your company's LAN for information on required settings

B. Accessing intelligent Touch Controller from a Remote Location



Using a modem and a dial-up router, the intelligent Touch Controller can be accessed from a remote location not connected to the company LAN. Consult the administrator of your company's LAN for information on setting up a dial-up router

C. Accessing intelligent Touch Controller via the Internet

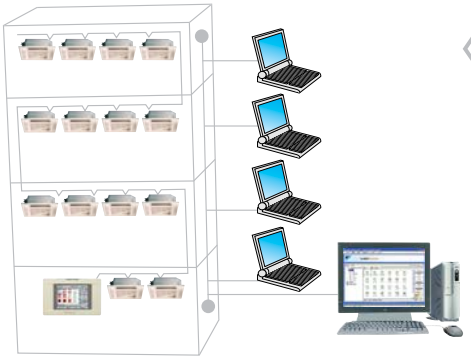


When accessing the intelligent Touch Controller via the internet, maintaining network security becomes an important consideration. It is necessary to set up a firewall or the like to allow access to the company LAN from the internet. Consult the administrator of your company's LAN for details

For example:

A. Monitoring and control according to user

Allows setting of monitoring and control functions by individual tenant



Screen of tenant's PC on 4th floor
Only the air conditioning units of the 4th floor are displayed. The user cannot monitor or control other tenant's air conditioning units

Notes:
1. Maximum number of indoor units that can be registered for web function is 64
2. Languages can be customised per tenant

Administrator screen

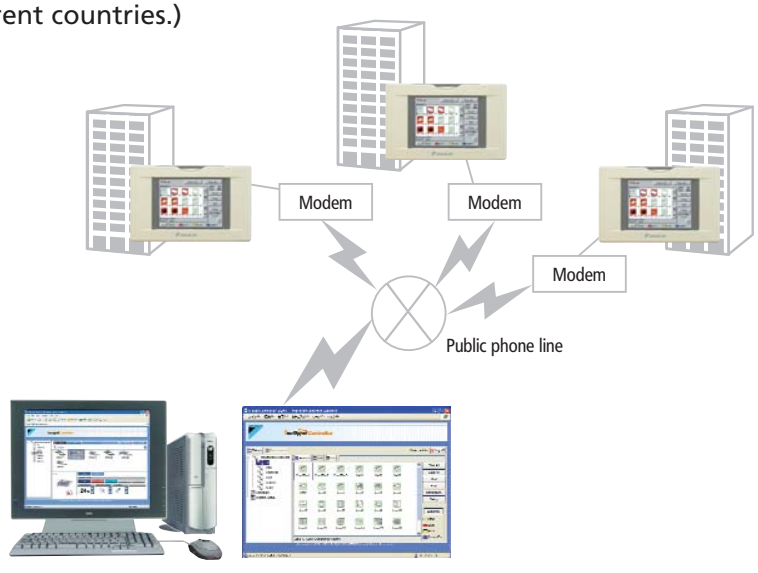
- All units are displayed
- Only administrators can set schedules

Tenants can stay in touch

If an error should occur, a malfunction report will be sent to your PC or mobile phone

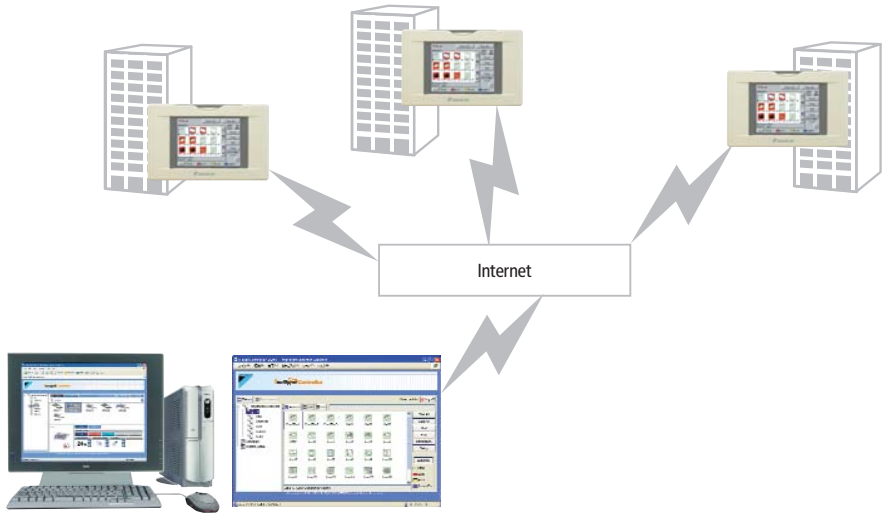
B. Remote monitoring and control of more than one building

Allows monitoring and control of more than one building from a central location. (Also possible in different countries.)



C. Remote monitoring and control of more than one building via internet

Allows monitoring and control of more than one building via Internet from a central location. (Also possible in different countries.)



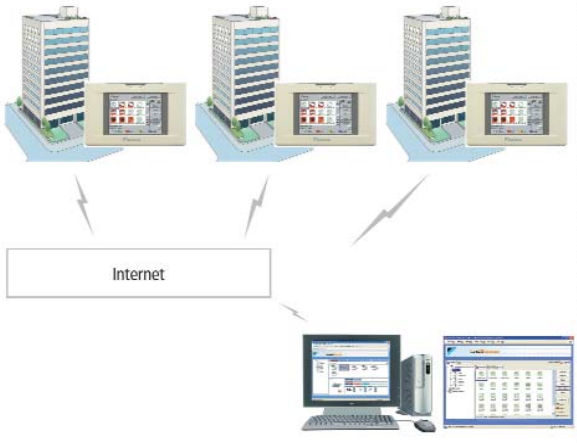
Notes:
* A network security device such as a firewall is necessary when connecting via the internet
* Daikin cannot be held responsible for any trouble whatsoever that occurs when accessing the internet

NEW

2 PPD DATA IS NOW AVAILABLE ON THE INTERNET VIA COMBINED WEB ACCESS AND PPD FUNCTION

PPD data can be accessed from remote and multiple buildings via the internet. Access can be gained from any location by a PC through a combination of web access and PPD function. However, in instances where an Intelligent touch controller is installed, there is no need to log onto the site – thereby simplifying electrical consumption management.

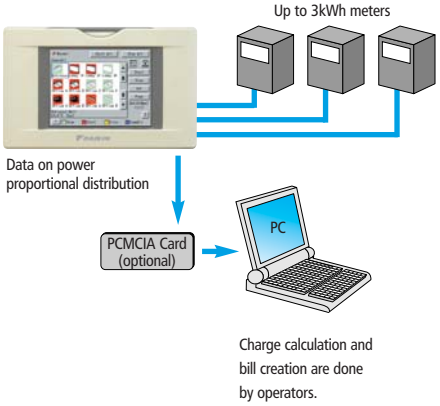
PPD data originally had to be accessed via a PCMCIA card in each building.



But PPD data can now be accessed remotely via the internet.

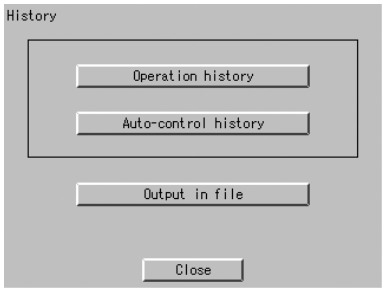
3 Easy Management of Electricity Consumption

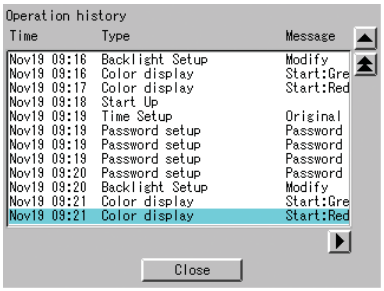
Intelligent Touch Controller also provides information on the proportional distribution of electric power, making it easier to manage electricity consumption. Optional software to compute electric power proportional distribution, enables the electric consumption data (CSV format) per hour for each indoor unit (or group) connected to Intelligent Touch Controller to be saved on a dedicated memory card (13 months data storage possible). It can then be displayed on a PC or spreadsheet programme. Consumption rates can then be calculated relative to the different accounting methods that may be used according to the respective conditions. Once your calculations are complete, the bill can be printed.



4 Enhanced History Function

The error history function keeps a detailed record split up by malfunction item. This is an important feature for maintaining the system and dealing with malfunctions. It helps ensure that appropriate maintenance work is performed.



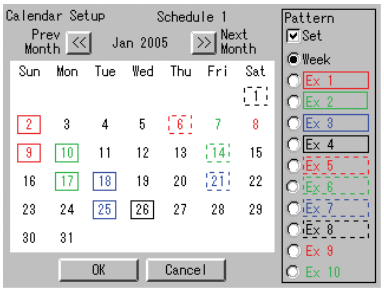


Control

NEW 1 Enhanced scheduling function

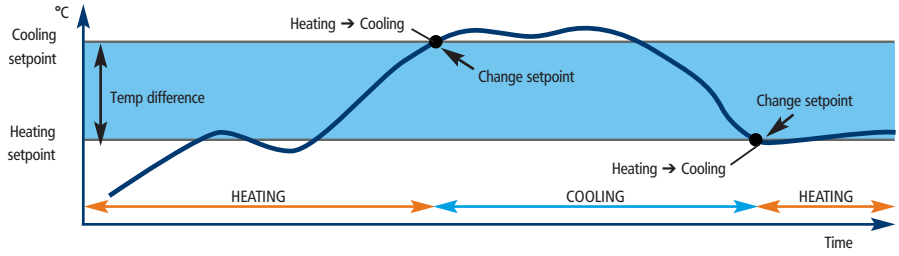
It is possible to set up an automated yearly schedule, specifying such items as daily start up and shut off times, temperature settings and operation modes.
With 17 types of settings (Monday-Sunday + 10 special days) up to 16 operations can be registered per type, for example - Intelligent Touch Controller allows any kind of schedule (up to 8) to be set, including air conditioning unit operating hours for every day of the year. In fact, it fully automates the daily management of the system in place. Efficient automation also allows the user to save on electricity bills. (Including daylight savings option)

Calendar screen



2 Automatic Cooling / Heating Changeover

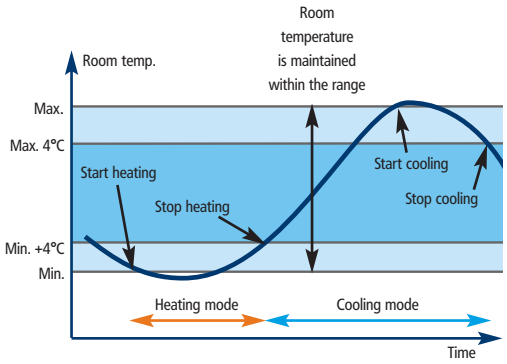
Maintains optimum room temperature by automatically selecting cooling or heating mode according to room temperature in locations subject to large temperature differences between night and day.



3 Temperature Limit

Automatically starts and stops the air conditioner to prevent temperatures in unoccupied rooms from rising or falling too far, e.g.

- prevents overheating of equipment and formation of condensation in temperature controlled equipment in unoccupied rooms
- also assists in preserving heat in entire buildings by preventing unoccupied rooms from reaching extreme night time temperatures.



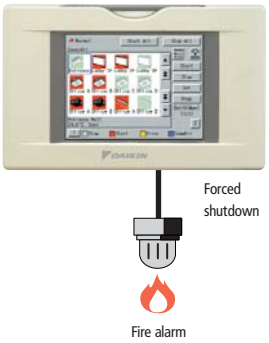
4 Heating Optimization

Starts/stops the air conditioner during heating mode, depending on room and set temperatures to prevent the temperature from rising.

NEW

5 Interlocking Control

Intelligent Touch Controller can be linked to a fire alarm device to terminate operation should an emergency occur. A wide variety of control possibilities can be set up, for example link start up and shut down to locking and unlocking of doors/windows, switch on/off your air conditioning, activate/deactivate a pump, etc. Any "if ... then..." function of your choice can be carried out via digital input, digital input/output accessories or intelligent Touch Controller.

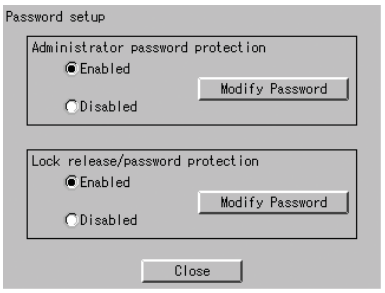


NEW

6 Password security

3 different password levels can be registered separately, permitting access to different levels of control functions:

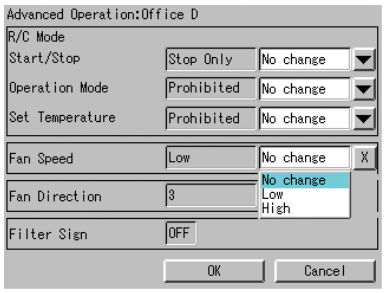
- General
- Administration
- Service



7 Quick Selection and Control

Just two or three simple operations enable an individual air conditioning unit to be quickly selected and controlled.
The operator can scroll search and then specify the air conditioning unit required merely by touching the icon. Icons display the operating status of the air conditioning unit(s) in question and the menu allows a variety of settings to be made without any problem.

8 Full Control

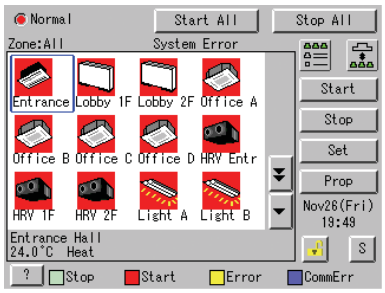


It allows easy operation of a variety of functions including the setting of operation mode and temperature.
Touching upon "Operation/Details" brings the operator to the screen used on a daily basis and input simply requires a touch of a pen.

9 Simple Navigation

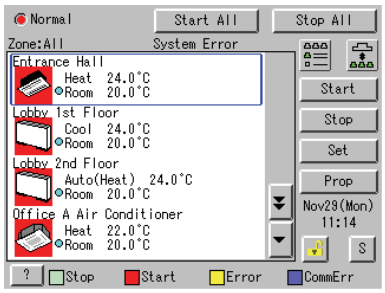
Changes from icon to detailed icon or even list display and vice versa can be made according to operator preference.
Intelligent Touch Controller enables icon, detailed icon and list displays to be changed according to management and monitoring requirements, irrespective whether individual indoor unit information is being confirmed or room temperatures compared.

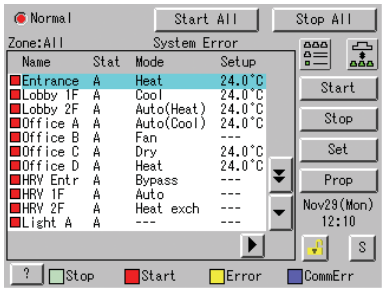
Icon display



Detailed icon display

NEW



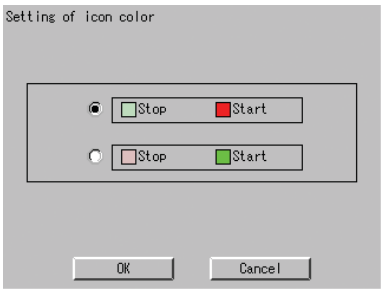


List display

Monitoring

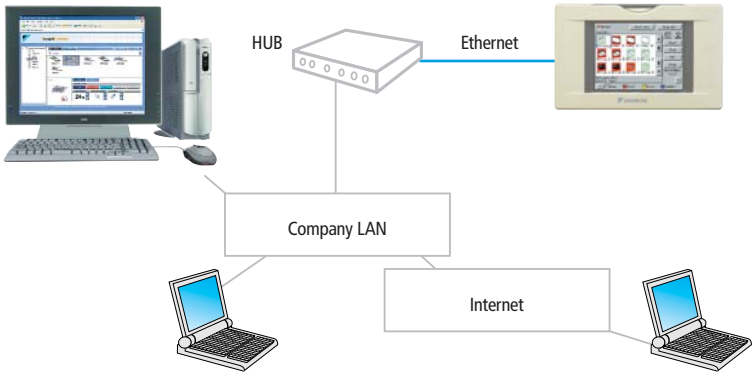
NEW 1 Icon Colour Display Change Function

The colour of the icons, indicating running and stopped status can be changed. This makes it easy to customize the display to match administrator preferences or match the display of other control devices.

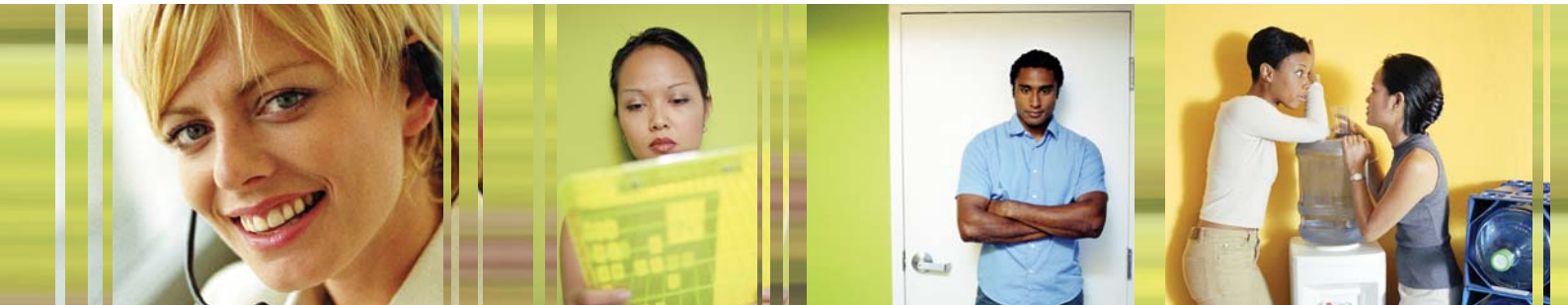


NEW 2 Error Messages via E-mail (Option)

If an error should occur, you will receive a malfunction report via e-mail.

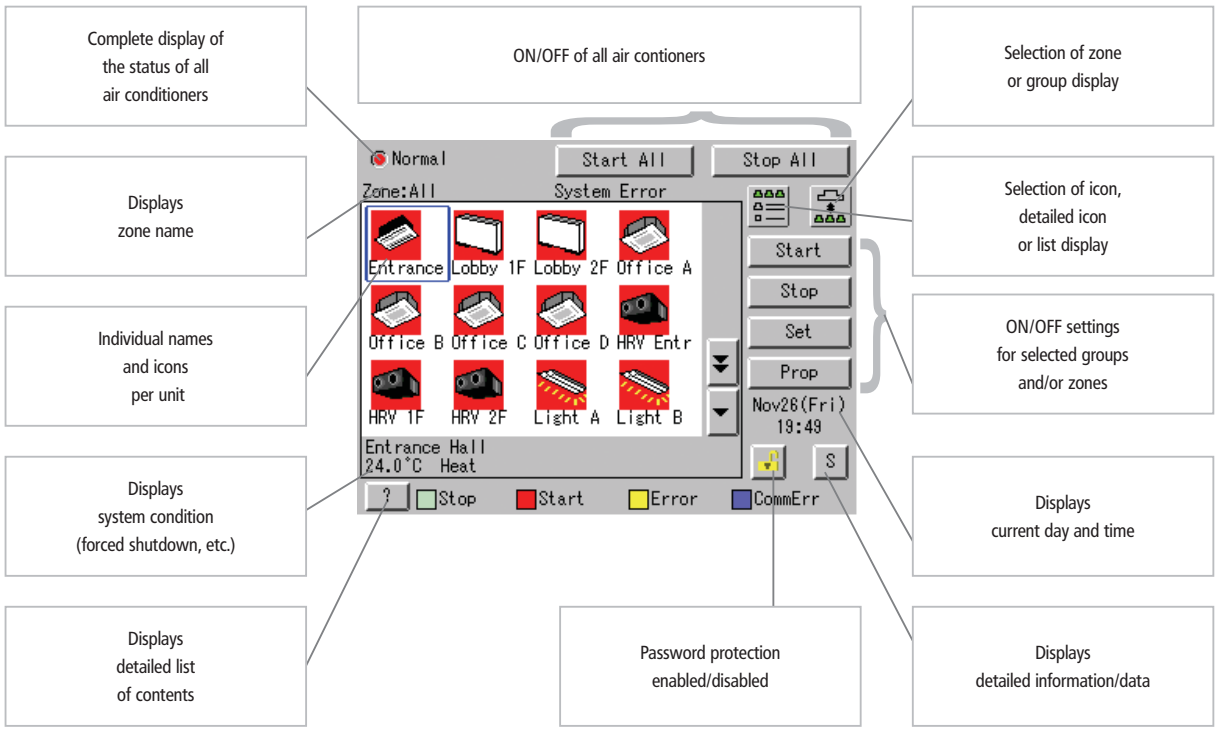


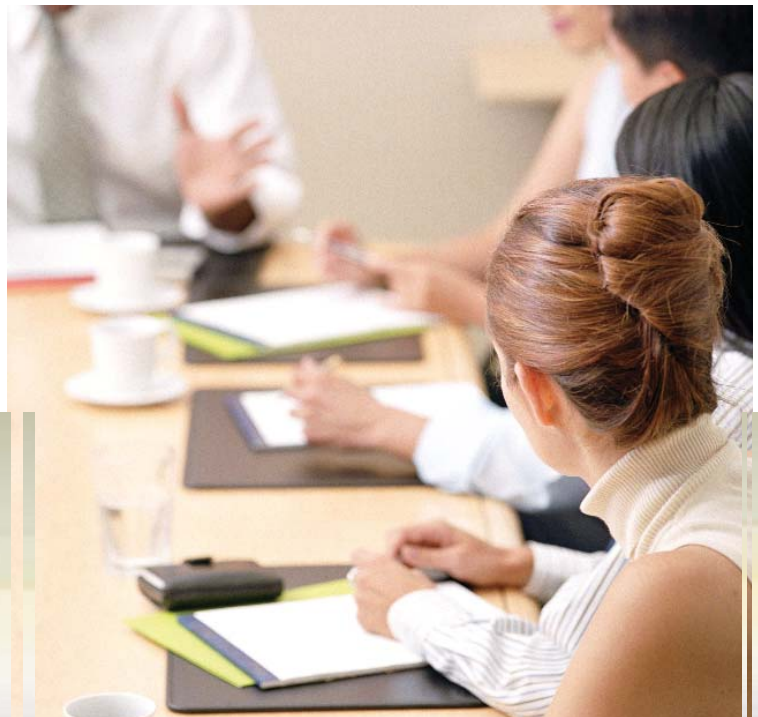
Set up is necessary to receive malfunction notifications via e-mail. Also, the location to be accessed must have an SMTP server. Consult the administrator of your company's LAN for detailed information on the required settings.



3 Detailed and Easy Monitoring and Operation

Detailed and easy monitoring and operation of systems with up to 2x 64 groups of indoor units (with maximum 128 indoor units).
Just a touch on the screen brings up icons that make it easy to grasp any information regarding system control. The Intelligent Touch Controller enables an operator to carry out a variety of quick and easy operations, establish numerous settings and bring up screens to confirm the details.





Specifications

			intelligent Touch Controller	DIII-NET Plus adapter
Reference			DCS601C51	DCS601A52
Power supply			externally supplied AC100V-240V, 50/60Hz	externally supplied AC100V-240V, 50/60Hz
Condition of installation method for use			JIS4 switchbox embedded in indoor wall	-
Operating condition	Surrounding temperature		0°C to 40°C	-10°C to 40°C
	Humidity		less than 85 % RH (if no condensation)	less than 90 % RH
Dimensions	HxWxD	mm	147x230x107	190x157x42
LCD panel	Size / n° of dots / n° of colours		5.7 inches / QVGA 320x240 / 4,096 colours	-
Maximum number of indoor units			1 x 64 (2 x 64: combined with DCS601A52)	1 x 64
Maximum number of outdoor units			1 x 10 (2 x 10: combined with DCS601A52)	10
PC & display			built-in	-
Input	Touch panel		10 bit encoded analog input	-
Communication functions	DIII-NET x 1		air conditioning equipment communication line	air conditioning equipment communication line
	Ethernet		1 port for internet	-
	RS-232C		DIII-NET Plus adapter	-
	10BASE-T		web option	-
	Modem		built-in modem for airnet	-
	PCMCIA slot		flash memory card	-
Input terminals	Digital input Di x 1		forced shutdown	-
	Pulse input Pi x 3		power measuring pulse	power measuring pulse
Overseas certification	Safety of information - Technology Equipment		IEC60730 (including IEC60335)	IEC60730 (including IEC60335)
	Interference (EMC)		EN55022 Class A, EN55024	EN55022 Class A, EN55024
Project data & Engineering			Configuration and engineering for each project are necessary. For further details, please consult with Daikin distributors and dealers	

Accessories

Description	Reference	Comments
Software	DCS002C51	Power Proportional Distribution (PPD) Software
	DCS004A51	E-mail / Web software / Open interface
Hardware	DCS601A52	DIII NET-Plus adapter
Installation box	KJB411A	For wall mounted installation
Touch-Pen	1264009	Spare part n° of Touch-Pen for Intelligent Touch Controller
Interface adapters	KRP928A2S	For connection to Split units
	DTA102A52	For connection to R-22 / R-407C Sky Air units
	DTA112B51	For connection to R-410A Sky Air units
Digital input	DEC101A51	Input contacts: 16 points
Digital input/output	DEC102A51	Input contacts: 8 points; output contacts: 4 points

DAIKIN
AIR CONDITIONING

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Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.

Daikin units comply with the European regulations that guarantee the safety of the product.

ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.

VRV products are not within the scope of the Eurovent certification programme.

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