*i*ntelligent *touch* Controller

VRV

System Network Solution

Allows detailed and easy monitoring and operation of VRV systems (maximum 64 control groups)

Main Features

Intelligent Touch Controller is an advanced centralised control air conditioning management system that provides complete control for air conditioning equipment. This "all in one" graphic controller mounts neatly on any wall and takes up far less room space than BMS type systems.
Intelligent Touch Controller incorporates a touch screen and colour LCD display - easy for any operator to use - whilst its unique Daikin DIII -NET wiring and all-in-one system, enables the Intelligent Touch Controller to be installed in no time.

❶ Languages

- English
- (NEW) French
- (NEW) German
- (NEW) Italian
- (NEW) Spanish

❷ Powerful Functions

- (NEW) Automatic cooling/heating changeover
- (NEW) Heating optimization
- (NEW) Temperature limit
- Yearly schedule
- Power proportional distribution (optional)
- Fire emergency stop control
- Flexible timer functionality (several schedules up to a full year)
- Flexible grouping in zones
- History data
- Password security (system set-up)

❸ Cost Performance

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

❹ Simple Operation

- User friendly full colour LCD
- Touch panel
- Icon display

❺ Connectable to :

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

Principle of Intelligent Touch Controller

1 New Functions

NEW **AUTOMATIC COOLING / HEATING CHANGEOVER**
Maintains optimum room temperature by automatically selecting cooling or heating mode according to room temperature for locations subject to large temperature differences between night and day.

NEW **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.
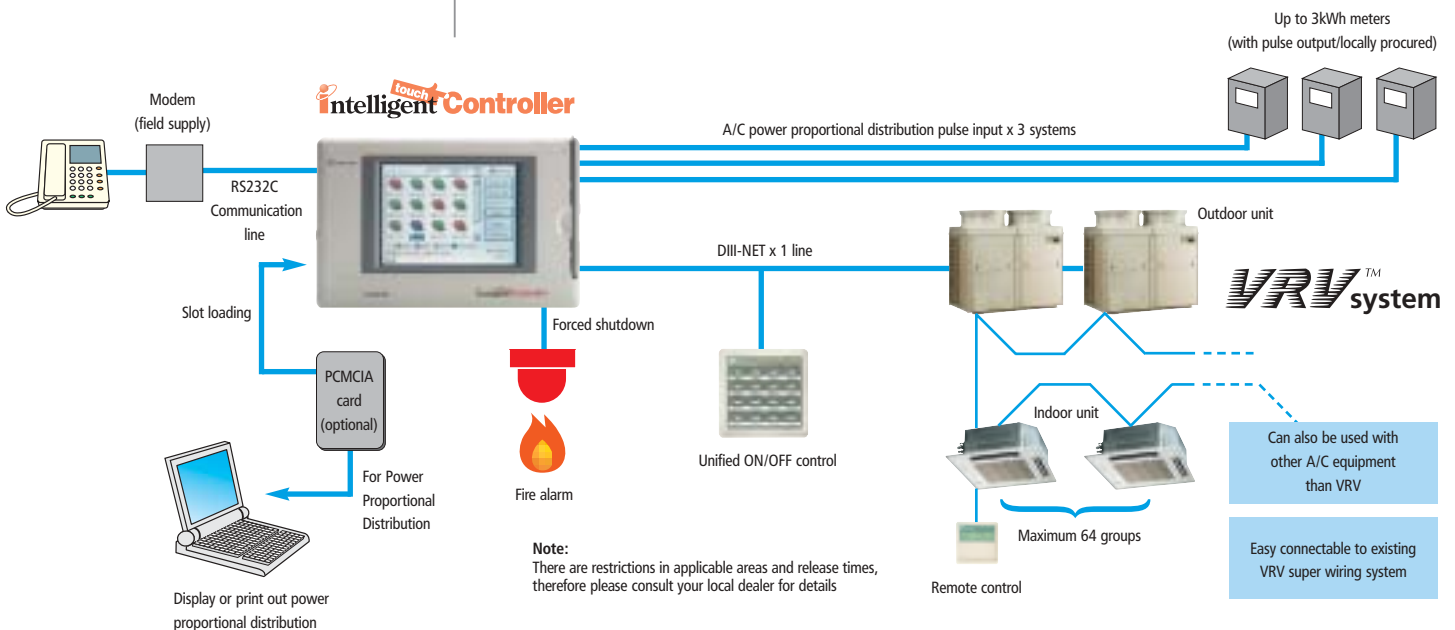
NEW **HEATING OPTIMIZATION**
Starts/stops the air conditioner during heating mode, depending on room and set temperatures to prevent the temperature from rising.
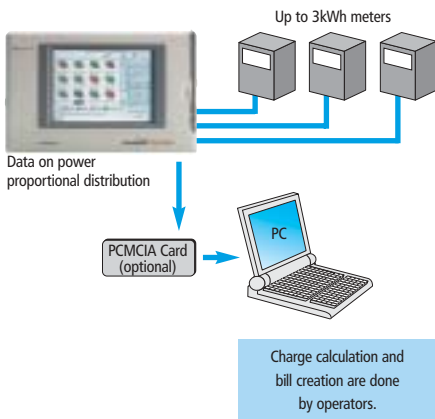
2 Complete System Control

The remarkable expandability of Intelligent Touch Controller allows VRV systems to be controlled in a variety of ways.

Intelligent Touch Controller not only allows the management of air conditioning units that function on the dedicated Daikin DIII-NET control system, it also can connect with conventional centralised control systems (Daikin Network Solution).
Furthermore, the Intelligent Touch Controller makes it easy to link fire alarms or key control systems with the air conditioning units.

Up to 3kWh meters
(with pulse output/locally procured)

Modem
(field supply)

intelligent touch Controller

A/C power proportional distribution pulse input x 3 systems

RS232C
Communication
line

Outdoor unit

DIII-NET x 1 line

VRV system ™

Slot loading

Forced shutdown

PCMCIA
card
(optional)

Indoor unit

Can also be used with
other A/C equipment
than VRV

Unified ON/OFF control

For Power
Proportional
Distribution

Fire alarm

Maximum 64 groups

Easy connectable to existing
VRV super wiring system

Display or print out power
proportional distribution

Note:
There are restrictions in applicable areas and release times, therefore please consult your local dealer for details

Remote control

Up to 3kWh meters

Data on power proportional distribution

PCMCIA Card (optional)

PC

Charge calculation and bill creation are done by operators.
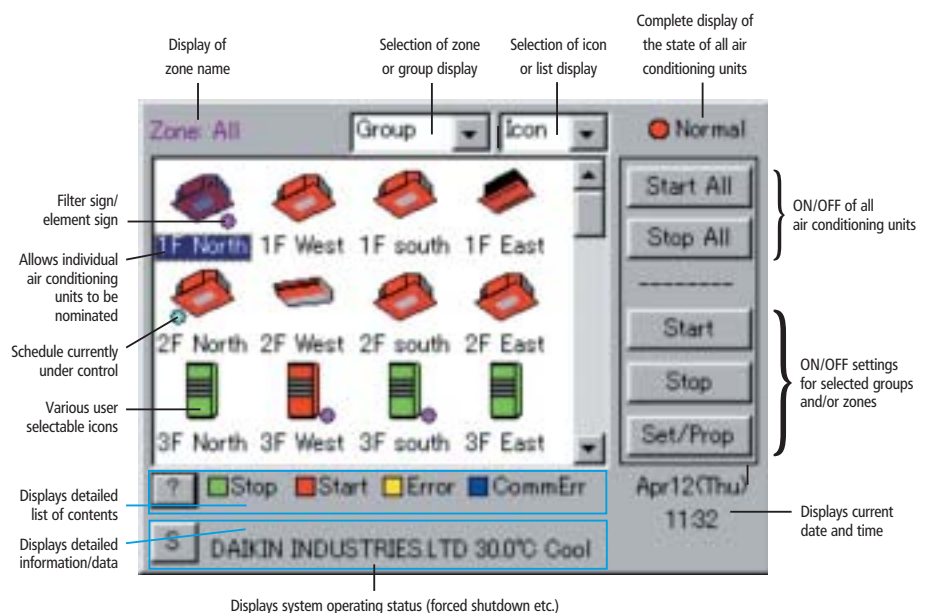
3 Easy Management of Electricity Consumption

It also provides information on the proportional distribution of electric power, making it easier to manage electricity consumption.
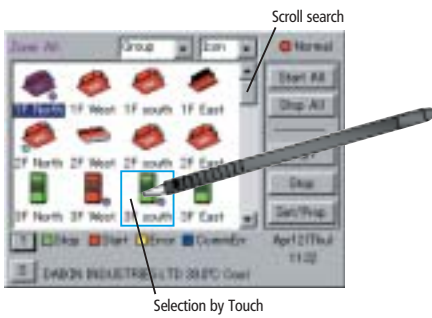
Optional software to compute electric power proportional distribution enables the electric consumption data (CSV format) for each indoor unit (or group) connected to Intelligent Touch Controller to be saved on a dedicated memory card. It can then be displayed on a PC or spreadsheet programme. Consumption rates can then be freely 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 Detailed and Easy Monitoring and Operation

Detailed and easy monitoring and operation of systems with up to 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.

Display of zone name

Selection of zone or group display

Selection of icon or list display

Complete display of the state of all air conditioning units

Filter sign/ element sign

Allows individual air conditioning units to be nominated

Schedule currently under control

Various user selectable icons

Displays detailed list of contents

Displays detailed information/data

Zone All   Group   Icon   ● Normal

Start All
Stop All

ON/OFF of all air conditioning units

1F North 1F West 1F south 1F East

Start
Stop
Set/Prop

ON/OFF settings for selected groups and/or zones

2F North 2F West 2F south 2F East

3F North 3F West 3F south 3F East

? □ Stop ■ Start ■ Error ■ CommErr

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Displays current date and time

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Displays system operating status (forced shutdown etc.)

Scroll search

Selection by Touch

⑤ 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.

Calendar Screen

* Settings and changes can be made by simply touching a specific day on the calendar.

⑥ Advanced Schedule Possibilities

The management of daily on/off and temperature settings can be fully automated with the yearly schedule function.
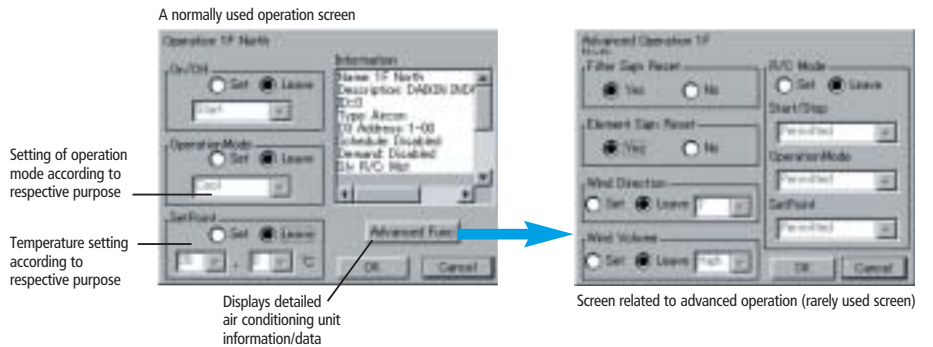
With four types of settings - weekdays or holidays (up to 16 operations can be registered per type) for example - Intelligent Touch Controller allows any kind of schedule (up to 8) to be set, including air conditioning unit operating hours for every day of the year. In fact, it fully automates the daily management of the system in place. Efficient automation also allows the user to save on electricity bills. (Including daylight savings option)

7 Full Control

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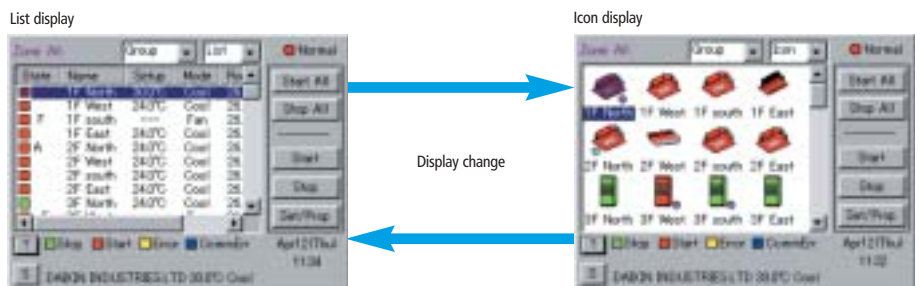
Touching upon "Operation/Details" brings the operator to the screen used on a daily basis and input simply requires a touch of a pen. The rarely used advanced operation screen is also displayed.

A normally used operation screen

Setting of operation mode according to respective purpose

Temperature setting according to respective purpose

Displays detailed air conditioning unit information/data

Screen related to advanced operation (rarely used screen)

8 Simple Navigation

Changes from icon to list display and vice versa can be made according to operator preference.

Intelligent Touch Controller enables 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.

List display

Icon display

Display change

9 Specifications

Intelligent Touch Controller [1*]			DCS601B51
Power supply			externally supplied AC100V-240V, 50/60Hz
Condition of installation method for use			JIS4 switchbox embedded in indoor wall
Operating condition	Surrounding temperature		0°C - 40°C
	Humidity		less than 85 % RH (if no condensation)
Dimensions panel	HxWxD	mm	147x230x40
LCD panel	Size		5.7 inches
	N° of dots		QVGA 320x240
	N° of colours		4,096 colours
Maximum number of indoor units			64 (128)
Maximum number of outdoor units			10
PC & display			built-in
Input	Touch panel		10 bit encoded analog input
Communication functions	DIII-NET		1 line of air conditioner equipment for communication use
	Ethernet		for servicing x 1
			modem x 1
Input terminals	Digital input		compulsory shutdown input x 1
	Pulse input		power measuring pulse input x 3
Overseas certification	Safety of information Technology Equipment		IEC60730
	Interference (EMC)		CISPR22, class-B, EN50082-1
Project data & Engineering			Configuration and engineering for each project are necessary.
			For further details, please consult with Daikin distributor and dealers
			Note:
			1. Service and commissioning is offered by your technical service department

10 Accessories

Item		Comments
Software	DCS002A51	Power Proportional Distribution (PPD)
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
	DTA102A51/52	For connection to Sky Air units

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.

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.

Specifications are subject to change without prior notice

CE

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

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

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