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Toshiba ilm**โคลก่ไออ**ว**่ไทลุ/อิเภออิกษญาคยุน่าญาญาชาย**ู่ธ**อมคประ มูลสารภาพุธ**ลเ**/อิติกฝะรัญกุล/yelu** Oy, Vantaa

9-1. Outline of Air Conditioner Control

This air conditioner is a capacity-variable type a **9. OPERATION DESCRIPTION** conditioner, which uses DC motor for the indoor fan

motor and **9** be out **Optili memore Aim Considitioner Control** proportional control compressor which can change the motor speed initioner is a capacity-variable type air motor speed initioner is a capacity-variable type air mounted. The Orameter douted on the spectra for the indoor fan mounted. The Orameter douted on the spectra the capacityindoor unipropertormaleson and compressor which the capacityindoor unipropertormaleson and compressor which the capacityindoor unipropertormaleson and compressor to the out of the fan motor and the out of the out of the capacity of the entire and the indoor the indoor unipropertormal of the compressor and the inverter to control The indoor unit control for an entire of the out of the indoor unit.

The entire air conditioner is mainly controlled by the

- Compressor operation control
- Operation control of outdoor fan motor
- P.M.V. control
- 4-way valve control
- Detection of inverter in release operation
- Over-current detection to IGBT module (Comp

based upon constaites imalampopulmenujers myynti, huolto ja asennus: Jäähdytinpalvelu and transfers the operation command to the outdoor unit controller.

The outdoor unit controller receives operation com-mand from the indoor unit side, and controls the **OPERATION DESCRIPTION**

outdoor fan and the pulse motor valve. (P.M.V) Besides, ogetettin Outline of Air Gonditioner Control

sor motor, the altoon white controller apatines wanable type air the compresseditionter, byhightesting DOC publication to an the invertence and and the cut have been an active the capacity-(current transportional contrat captor and which have the

to the operation command the range from 11 to 118 rps is And then, the outdoor unit controller transfers reversely indoor unit. The compressor and the inverter to control the operating status information of the outdoor unit to control the indoor unit controller. The entire air conditioner is mainly controlled by the As the compressor adopts four-pole brushless

DC motor, the frequency of the supply power The indoor unit controller drives the indoor fan motor from inverter to compressor is two times for lemote controller, of the actual numbers of revolution command to the outdoor

1. Role of indopulunit controller

The indoor theit out the offer structure of the section comcommand shand themether tendoor whit side a such egontrols the the follow Myten Ref and the pulse motor valve. (P.M.V)

 Judgmentesidesidesideseting revelution position of the compresheat exchanger by using the motor the outdoor unit controller controls speed of (TA sensor) • Judgment of the indoor beat exchanger temperature • Judgment of the indoor heat exchanger temperature by using heat exchanger sensor) by using heat exchanger sensor (TC sensor)

(Prevent-fraging control and super healt controller) transfers reversely · Judgment of operanders has a second of the outdoor unit to ture by using heat aschanger ganses (Traisensor)

(Super heat control etc.)

Louver motor control compressor adopts four-pole brushless DC motor, the frequency of the supply power Indoor fan motor operation control Trom inverter to compressor is two-times cycles

- · LED (Light Emitting Clude humber on tevolution.
- Transferring of operation command signal (Serial)

signal) to the Role of indoor unit controller

· Reception of information of the operation (Serial signal including outsident men character other oller and assumes outdoor unit and indement/displayonserror

Air purifier operation entropisuction air temperature of the indoor

2. Role of outektoex chaitgeorby roslieg the indoor temp. sensor. Receiving the operation command signal (Serial signal) from the udgo entiot the independent eater whanger temperature unit performs it by desing heat exchanger sensor (TC sensor)

(Prevent-freezing control and super heat control, etc.)

9. OPERATION DESCRIPTION exchanger tempera-ture by using heat exchanger sensor (TCJ sensor)

 Louver motor control - 27 -

Indeer for motor operation control

- Compressor operation control
- Operation control of outdoor fan motor
- P.M.V. control
- 4-way valve control
- Detection of inverter in release operation
- Over-current detection to IGBT module (Comp
- Compressor and outdo serial signal is off (whe reach the board assem trouble of the signal sy
- Transferring of operatic signal) from outdoor ur controller
- Detection of outdoor te revolution control
- Defrost control in heati measurement by outdo control for 4-way valve
- 3. Contents of operation (Serial signal) from ir outdoor unit controll

The following three types the indoor unit controller.

- Operation mode set or
- Compressor revolution by indoor temperature (Correction along with ture and correction of i temperature are addec
- Temperature of indoor
- For these signals ([Opt pressor revolution] inde perature), the outdoor input current to the inv followed operation with does not exceed the al

4. Contents of operation (Serial signal) from o to indoor unit contro

The following signals are controller.

 CompressorToshiba ilmalämpöpumppujen myynti, huolto ja asennus: Jäähdytinpalvelu control

Operation control of

outdoor fan motor

P.M.V. control

4-way valve control

Detection of in Outlinet of Air Conditioner Control

release operation conditioner is a capacity-variable type air · Over-currentide tection which prevention motion the indoor fan to IGBT moduler (and the source oprice of the capacity-

· Compressionational control compressor which can change the serial signal sources in the serange for the 118 rps is reach the board assembly of outdoor drive, circuit is mounted to the indoor unit. The DC motor drive, circuit is mounted to the indoor unit. The compressor and the inverter to control trouble of the signal system) ian motor are mounted to the outdoor unit. • Transferring of operation information (Serial The entire air conditioner is mainly controlled by the signal) from outdoor unit controller to indoor unit rootroller.

controller The indoor unit controller drives the indoor fan motor Detection of outdoor temperature and operation remote controller, revolution and transfers the operation command to the outdoor Defrost controbin beating operation (Temp.

measurement by subdoor heaton comcontrol forn-famaly finality along draug do unfamiliate, and controls the

3. Contents of operation rolamand sideral (P.M.V) (Serial signal) from indeor whit controller to the compres-sor motor, the outdoor unit controller controls speed of outdoor unit controller by controlling output voltage of The following threateness of signaling the supply power the indoor(onitentitelister timing) so that motors drive according

Operation modesetation common dontroller

· Compressed revenutible cutriport duriting not the transfers reversely by indoor the preventing status information of the outdoor unit to (Correction along with Vanation of room tempera-

ture and formstime configressor adopts four-pole brushless temperature Decempeded, the frequency of the supply power

Temperaturent imwenter doexomapgessor is two-times cycles

· For these state actual thumber of revolution.

pressor revolution] indoor heat exchanger temperature), the outgoor unit controller monitors the input current เป็าสายหนึ่งอยู่เป็นกลุ่ม เป็นกลุ่ม เป็นกลุ่ม เป็นกลุ่ม เป็นกลุ่ม เป็นกลุ่ม เป็นกลุ่ม เป็นกลุ่ม เ followed operant manner them the transter controller and assumes does not exceed the allowable value.

4. Contents of operation command signal of the indoor heat exchanger by using the indoor temp. sensor. (Serial signal Argenson outdoor unit controller

to indoor unit controller indoor heat exchanger temperature The following signal since seat exchange use osount to sensor)

(Prevent-freezing control and super heat control, etc.) controller.

- The current operationentode inlet indoor heat exchanger tempera-
- The current compressions in going the sensor (TCJ sensor)
- Outdoor temperature heat control etc.)
- Existence of plate very every content of plate very every second s

Indeer fan meter anaration control

9. OPERATION DESCRIPTION

- Compressor operation control
- Operation control of outdoor fan motor
- P.M.V. control
- 4-way valve control
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- 4. Contents of operation (Serial signal) from o to indoor unit contro

The following signals are controller.

For transferring shibseling lämpopumppujen myynti, huolto ja asennus: Jäähdytinpalvelu controller monitors the contents of signals, and

judges existence of trouble occurrence.

Contents of judgment are described below.

• Whether distinction of the current operation status meets to the operation command signal

• Whether 971 tecoulting of Airs Conditioner Control

When no styne lat receive to from the capacity-variable type air unit controcter cliticeness with a sac solid emotor for the indoor fan

motor and the outdoor fan motor. And the capacityproportional control compressor which can change the Operation Motor and in the range from 11 to 118 rps is

mounted. The DC motor drive circuit is mounted to the indoor unit. The compressor and the inverter to control judgment of serial

signal from indoor side. indoor unit controller.

The indoor unit controller drives the indoor fan motor

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- Compressor operation control
- Operation control of outdoor fan motor
- P.M.V. control
- 4-way valve control
- Detection of inverter in release operation
- Over-current detection to IGBT module (Comp
- Compressor and outdo serial signal is off (whe reach the board asser

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