Neostat
Room Temperature Controller T6065, T9065
Room Humidity Controller H615, H915

Specifications

Temperature Controllers

Model	Control Provided	Range	Summer-winter changeover switch
T6065A2026	Two-position	15 to 30 °C	No
T6065B2024			Yes
T9065A2020	Proportional		No
T9065B2028			Yes

Humidity Controllers

Model	Control Provided	Range
H615A2036	Two-position	30 to 80 % RH
H615B2044		50 to 90 % RH
H915A2022	Proportional	30 to 80 % RH

Electrical rating:

T6065A, B

	125 V AC	250 V AC
Full load	6 A	3 A
Locked rotor	36 A	18 A

H615A

	Dehumidification		Humidification	
	125 V AC	250 V AC	125 V AC	250 V AC
Full load	3.0 A	1.5 A	4.4 A	2.2 A
Locked rotor	18.0 A	9.0 A	26.4 A	13.2 A
Resistive load	—	—	8.0 A	4.0 A

Item	Specifications
Rated operating conditions	15 to 40 °C (95 % RH or less)
Transport/ storage conditions	–20 to 50 °C (95 % RH or less)
Differenitial	T6065A,B : Approx. 1 °C fixed H615A : Approx. 5 % RH fixed (H615A2036 : at 50 % RH, H615A2044 : at 65 % RH)
Throttling range	T9065A,B : Approx. 2 °C fixed H915A : Approx. 12 % RH fixed (at 50 % RH)
Element	Temperature controller : Diaphragm Humidity controller : Nylon ribbon

With baseplate and mounting plate model

Item	Specifications
Cover	Pale beige (equivalent to Munsell 5Y8/1)
Base	Dark gray (equivalent to Munsell N3.0)
Attachment	• Terminal block: 1 • Mounting screw between body and terminal block (M3x8): 1 • Tapping screw for mounting terminal block (M2.6x8): 2
Auxiliary (order separately)	Base plate Q6065A1007..... T6065A Q6065B1005..... T6065B Q9065A1001..... T9065A Q9065B1009..... T9065B Q6150A1003..... H615A Q9150A1007..... H915A Thermo plate for individual room control QY11A01J1 Thermo plate DY2000A1003 (One unit, horizontal mounting) DY2000A1002 (One unit, vertical mounting) DY2000A2003 (Two unit, horizontal mounting) DY2000A2002 (Two unit, vertical mounting) Multi-thermo case TY110A

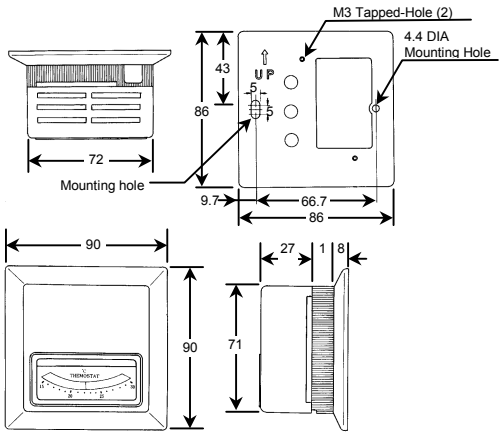

Fig.1 Dimensions in mm.-with baseplate and mounting plate model

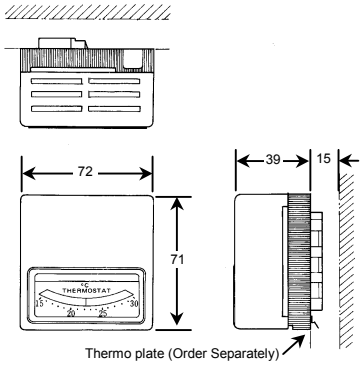

Fig.2 Dimensions in mm.-without baseplate and mounting plate model

Installation

Location

1. Locate the Neostat about 1.5 m (5 ft.) above the floor where average temperature and humidity of the space can be measured.
2. Avoid “dead spots” such as behind large pieces of furniture or doors without good air circulation.
3. Do not mount the Neostat where it may be affected by drafts, hot or cold air from ducts, radiant heat from the sun or appliances.
4. Do not mount the Neostat where it may be affected by vibration.
5. Do not mount the humidity controller where it may be affected by water drop. Do not allow dew condensation to form on the unit.

Safety Instructions

Please read these instructions carefully and use the product properly. Please keep these instructions on hand for reference at any time.

Usage Restrictions

This product is targeted for general air conditioning. Do not use this product in a situation where human life may be affected. If this product is used in clean rooms or places where reliability or control accuracy is particularly required, please contact Yamatake’s sales representatives. Yamatake Building Systems Co., Ltd. bears no responsibility for any benefit, or lack of benefit, derived from the operation by the customer.

⚠ CAUTION
• Disconnect the power supply before beginning wiring to prevent electrical shock.

⚠ CAUTION
• Installer must be a trained, experienced service technician.
• Check the ratings given in this instruction to prevent equipment damage.
• Check the environment given in this instruction to prevent equipment damage.
• All wiring must conform to local codes and ordinances.
• Use crimp contacts with insulation jackets for wire terminals.
• Do not dissolve this product except for removing the cover during wiring or part replacement to prevent equipment damage.

Mounting Procedure of Baseplate (See Fig. 3)

1. Install box cover with pitch of 66.7 mm (Box cover JIS C 8339) on the outlet box when needed.
2. Put mounting plate (order separately) on the box cover.
3. Then put baseplate (order separately) on the mounting plate.
4. Wire the baseplate. Refer to wiring section.
5. Remove the cover. (See Fig. 5) Then, mount the Neostat on the baseplate. See Fig. 6 also.
6. Replace the cover.

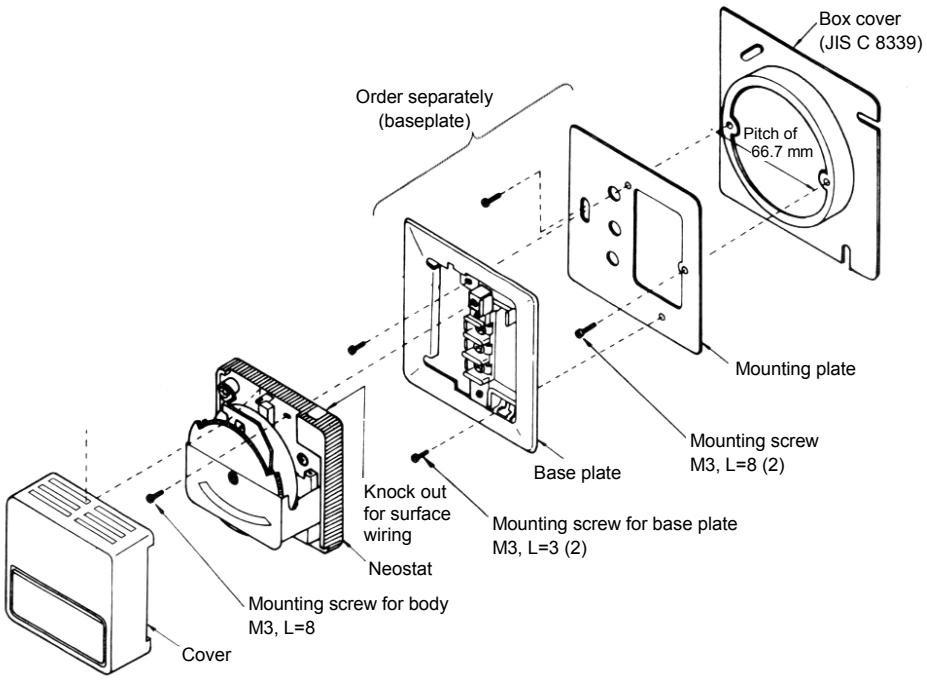

Fig.3 Mounting baseplate

Mounting Procedure of Thermo plate (See Fig. 4)

1. Mount the Thermo plate. Refer to the instruction of Thermo plate.
2. Mount the terminal block on the baseplate.
3. Wire the terminal block. Refer to wiring section.
4. Remove the cover. (See Fig. 5) Then, put the Neostat on the baseplate (See Fig. 6) and mount to the terminal block.
5. Replace the cover.

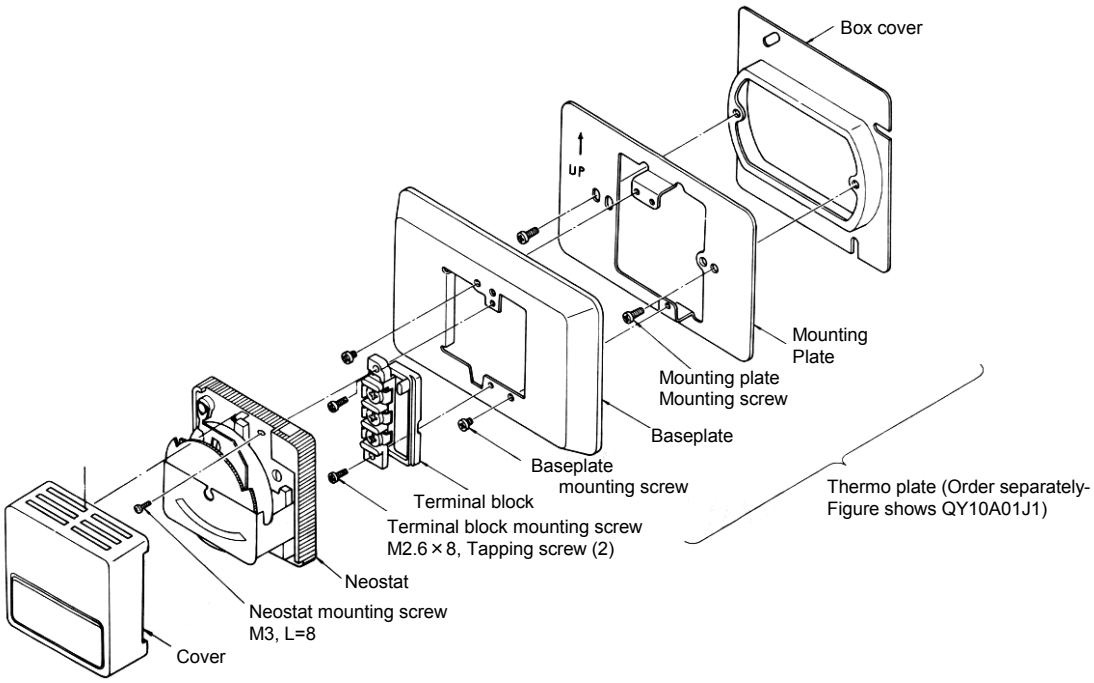

Fig.4 Mounting thermo plate

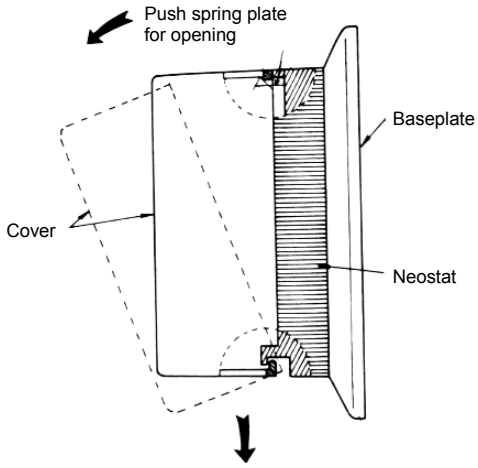

Fig. 5 Attach/detach cover

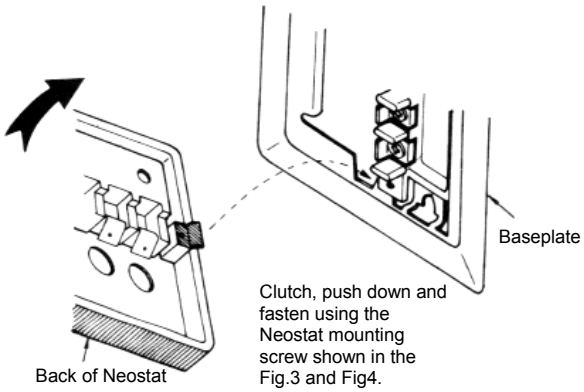

Fig. 6 Install Neostat

Wiring

All wiring must comply with local electrical codes and ordinance. In general these codes require:

1. Wire no smaller than #14 (1.6 mm).
2. All terminal connections should be carefully made. In making surface wiring, use knockout on the top of the body where marked.
3. Make correct wiring. Check the screw terminals for loose connections.

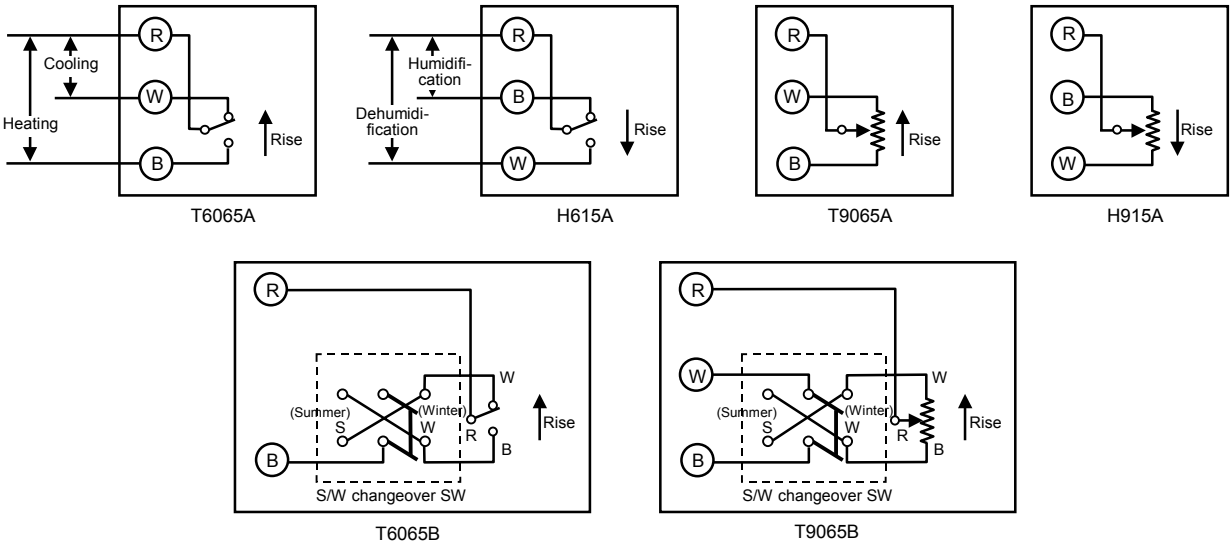

Fig.7 Connection diagram

Setting

1. Remove the cover.
2. T6065B and T9065B have S/W changeover switch. Set the lever in the specified position. See Fig. 10.
   Note: When the equipment is energized, do not change the switch.
3. The temperature controller have setpoint stoppers (Fig. 8) and the humidity controller have a setpoint lock screw (Fig. 9). The Neostat is shipped from the factory with setpoint dial locked in the position as follows:
   Temperature controller→30 °C
   Humidity controller 30 to 80 % RH model→80 % RH
   50 to 90 % RH model→90 % RH
   After sliding the stoppers of the temperature controller or after loosening the lock screw of the humidity controler, adjust the setpoint dial to the desired temperature or humidity. Setpoint is the center of throttling range for proportional controllers. For two-position controllers, see Figs. 11 and 12.
4. Set the setpoint stoppers or a lock screw as occasion calls.
5. Replace the cover.

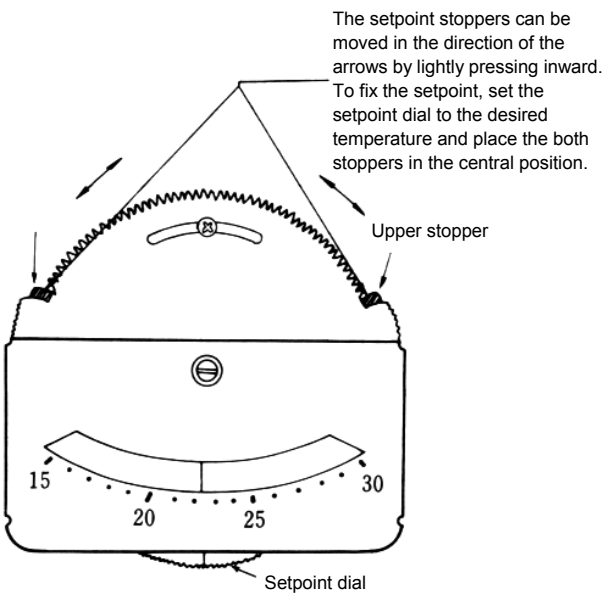

Fig. 8 Temperature controller

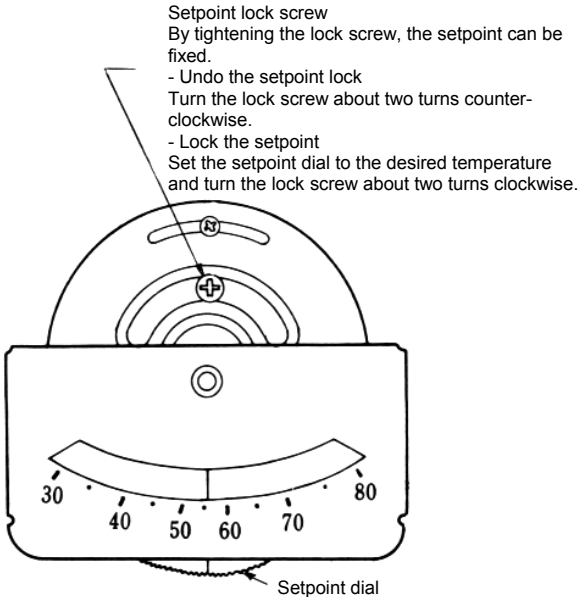

Fig. 9 Humidity controller

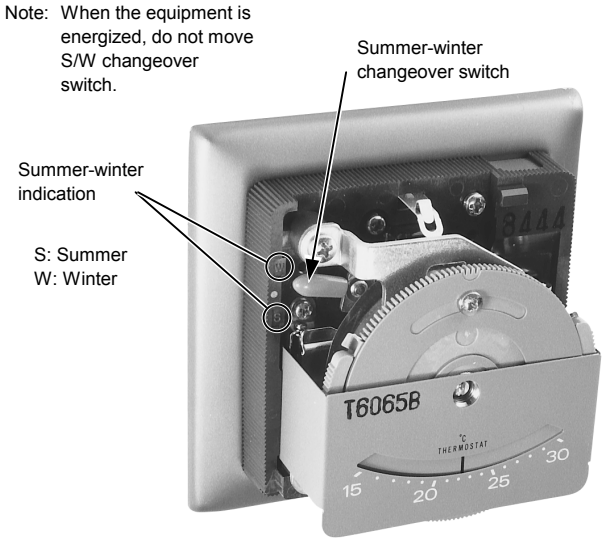

Fig. 10 Summer-Winter changeover switch of T6065B, T9065B

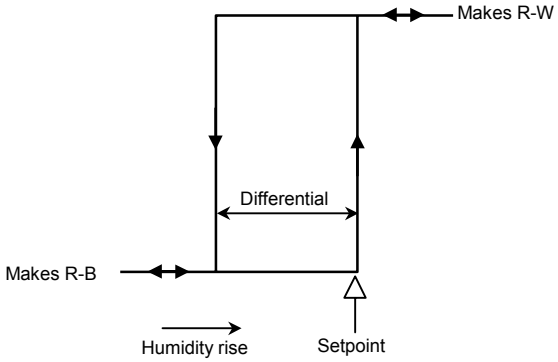

Fig. 11 H615A Switching action

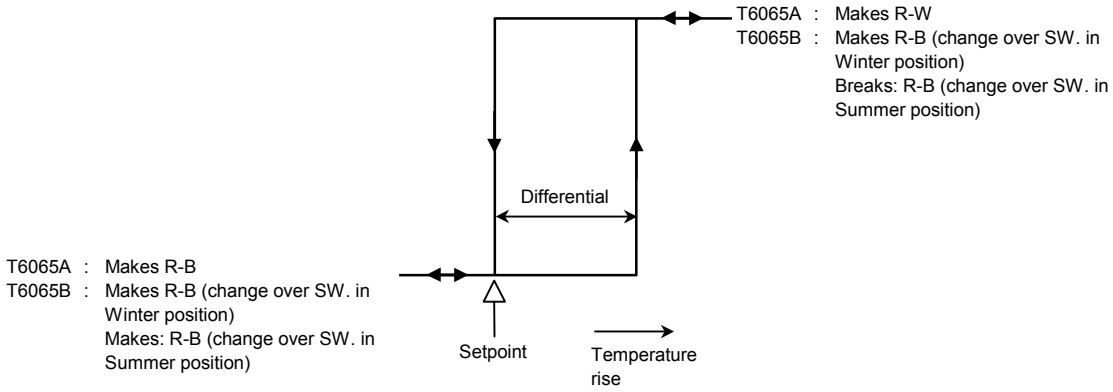

Fig.12 T6065A, B Switching action

Specifications are subject to change without notice.

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