

#### Specification and Installation Instructions

#### **Description**

The Neptronic Compact Make-up Air Unit (CMU) is designed to pull in fresh, tempered air from outside a building in order to replace existing air and continuously provide comfortable ventilation throughout the building.

Equipped with intelligent control strategies and the patented Neptronic EAS (Electronic Air Flow Sensors), the CMU maximizes efficiency and optimizes indoor air quality.

The advanced control strategies and optional BACnet MS/TP and Modbus RTU communication modules make it the ideal product for integration with the automation system of intelligent buildings, by enhancing user comfort and reliability.



**CMU Series** 

#### **Features**

- Air flow range of 50 to 750CFM (85 to 1274m<sup>3</sup>/h)
- Sizes from 6" to 12" (152 to 305mm)
- Wide power range (1kW to 20kW)
- Voltage from 120V/1ph to 600V/3ph
- ΔT between 22°F (11°C) and 86°F (45°C)
- Multiple I/O support for advanced control strategies
- Patented Neptronic EAS (Electronic Air Flow Sensors)
- Ease of operation and maintenance, and enhanced comfort with Neptronic TDF digital room sensors
  - Display supply temperature
  - Configure CFM and temperature setpoints
  - Monitor alarms
- ECM and AC fan strategies
- Intelligent control strategies
  - Indoor air quality applications with integrated temperature, humidity, CO<sub>2</sub> and occupancy sensor
  - Dehumidification logic
  - Interlock with extraction fans
  - Outside air sensors prime heater coils for fast response and comfort
  - Static pressure PID algorithms, control of fresh air and return air
- Integrate with BMS and intelligent buildings via BACnet MS/TP or Modbus RTU
- · Safety interlocks and thermal cutouts
- · Schedule support

#### **Network Communication**

- BACnet MS/TP or Modbus communication (selectable via DIP switch)
- Select MAC address via DIP switch or via network
- BMS integration via BACnet MS/TP or Modbus
- Multiple BACnet/Modbus points to propel you towards the Internet of Things (IoT)
- Remote monitoring (status, alarms, diagnostics, and trending)
- · Real-time feedback of output capacity
- Provides real-time temperature measures and power consumption data

#### **BACnet MS/TP®**

- MS/TP @ 9600, 19200, 38400, 57600 or 76800 bps
- Automatically assigns device instance
- Automatic Baud Rate Detection

#### **Modbus**

- Modbus @ 9600, 19200, 38400, 57600 or 76800 bps
- RTU Slave, 8 bits (configurable parity and stop bits)
- · Connects to any Modbus master

## **Specifications**

Technical data	CMU Series				
Maximum outlet air temperature	200°F (93°C)				
Maximum operating outlet temperature	95°F (35°C)				
Inlet bushing	2 knockouts of 1 %" (35mm) or 1 3/4" (44.5mm)				
Control signal	Modulating or Vernier control (select models)				
Fan	AC or ECM fan				
Air flow direction	Horizontal with reversible installation				
Voltage, Current, Power, and Minimum air flow	See name plate				
Certification	Complies to standards UL 60335-1 & UL 60335-2-40, CSA C22.2 No. 60335-1 & CSA C22.2 No. 60335-2-40				



#### Specification and Installation Instructions

#### **Models**

Model	Collar Size	Voltage Code	Heating Capacity	Fan Type	Power Switch
CMU	06 A		010	Α	D
CMU = Compact Make-Up Air Unit	06 = 6" 08 = 8" 10 = 10" 12 = 12"	A = 120VAC/1ph B = 208VAC/1ph C = 220, 240VAC/1ph D = 347VAC/1ph E = 480VAC/1ph F = 600VAC/1ph G = 208VAC/3ph H = 400VAC/3ph I = 480VAC/3ph J = 600VAC/3ph *= This option does not have ETL Certification	010 = 1kW 015 = 1.5kW 020 = 2kW 030 = 3kW 040 = 4kW 045 = 4.5kW 050 = 5kW 060 = 6kW 070 = 7kW 080 = 8kW 090 = 9kW 100 = 10kW 120 = 12kW 140 = 14kW 160 = 16kW 180 = 18kW 200 = 20kW	A = AC Axial Fan C = ECM Axial Fan D = ECM Centrifugal Fan	D = Disconnect Switch = None

## **Warnings**



Caution, Risk of malfunction, In case of alteration (drilling holes or other) to the electrical compartment, ensure proper protection of all electrical components installed. Chips may cause short circuit or affect operation of electrical components.

Caution, Risk of damage and malfunction, Ensure minimum air flow, insufficient air flow will lead to opening of mechanical air flow switch (PDN or PDA) or electronic air flow sensors (EAS) and automatic thermal cutout. This may damage heating elements and controls.



**Caution, Risk of malfunction**, Do not proceed with modification or alteration to internal electric connections or components of the make-up air unit. Any non-authorized modification will void the warranty.

**Important**, This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children must be supervised to ensure that they do not play with the appliance.

#### **Handling**



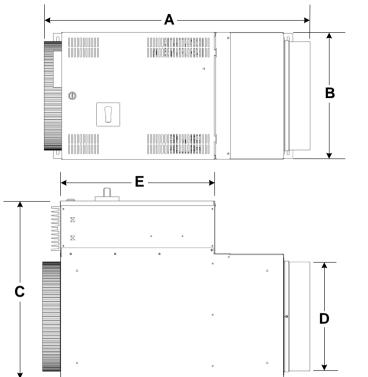
**Warning, Risk of failure or malfunction**. Do not operate the CMU if heating elements have been damaged during transport or handling.

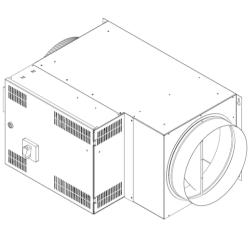
- Protective packaging must be kept until installation.
- Product must be handled with care.



Compact Make-up Air Unit Specification and Installation Instructions

## **Dimensions**





#### **Models with Axial Fan**

Models	Dime	ensions (inch)	[mm]	Collar Size (inch) [mm]	Door Length (inch) [mm]	Maximum Air Flow (CFM)	Maximum Power
	Α	В	С	D	E	[m³/h]	(kW)
CMU06 (Small)	23 [584]	7.6 [193]	42.2 [220]	6 [152]	14.7 [373]	125 [212]	3
CMU06 (Large)	28.9 [734]		13.3 [338]		20.7 [526]		3
CMU08 (Small)	24 [610]	0.6 [244]	15.3 [389]	8 [203]	14.7 [373]	320 [544]	0
CMU08 (Large)	30 [762]	9.6 [244]			20.7 [526]		8
CMU10	27.7 [704]	11.6 [295]	17.3 [439]	10 [254]	16.7 [424]	650 [1104]	12
CMU12	28.8 [732]	13.8 [351]	19.3 [490]	12 [305]	16.7 [424]	750 [1274]	20

## **Models with Centrifugal Fan**

Models	Dime	ensions (inch)	[mm]	Collar Size (inch) [mm]	Door Length (inch) [mm]	Maximum Air Flow (CFM)	Maximum Power
	Α	В	С	D	E	[m³/h]	(kW)
CMU06	34.2 [869]	9.9 [252]	15.3 [389]	6 [152]	25.9 [658]	250 [425]	3
CMU08	31.5 [800]	11.9 [302]	17.3 [439]	8 [203]	22.2 [564]	350 [595]	8
CMU10	37.9 [963]	13.9 [353]	19.3 [490]	10 [254]	26.8 [681]	500 [850]	12
CMU12	41 [1041]	15.9 [404]	21.3 [541]	12 [305]	28.9 [734]	700 [1189]	20

Page | 3 www.neptronic.com



#### Specification and Installation Instructions

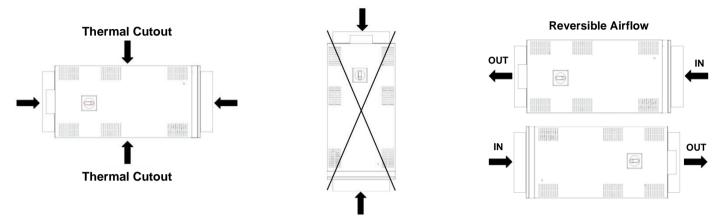
#### **Mechanical Installation**



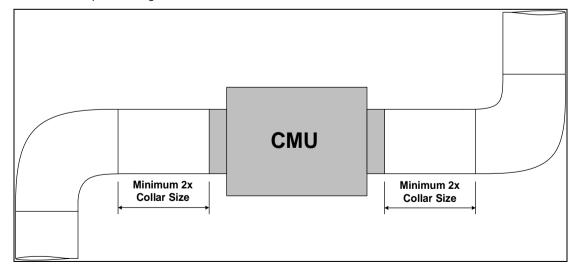
Caution, Risk of electric shock and burns. Personnel must use appropriate personal protective equipment to protect themselves from risk of electric shock and burns due to contact with heating elements and bare live parts. Always proceed with caution when handling and servicing the CMU by following the appropriate lock-out procedures to ensure safety.



Caution, Risk of damage and malfunction. Do not block air flow to heating elements and ventialtion slots, as insufficient air flow may damage heating elements and controls.



- The compact make-up air unit is designed to be installed for horizontal air flow only. Vertical installation is not recommended.
- The CMU is equipped with thermal cutouts both on top and bottom of the unit, which allow it to simply be rotated 180° to change the air flow direction without modifying the fan or wiring. The air flow direction from the fan itself is fixed and cannot be reversed. Before mounting the make-up air, determine the direction of air flow required and rotate the unit accordingly.
- The CMU is designed to preheat fresh air and not ambient air.
- For proper air flow, a minimum straight duct distance of 2x the collar size/duct diameter must be maintained upstream and downstream the CMU, between the unit and any obstacle, such as dampers, louvers and elbows.
- Use round insulated ducts for the inlet connection and uninsulated ducts for the outlet, while ensuring to minimize the use of elbows.
- When taking air directly from outside, install the inlet duct at an incline, in order to prevent condensation or melted snow from flowing into the unit.
- It is recommended to have a secondary damper before the inlet of the make-up air unit, in order to prevent a strong draft of wind from opening the damper in the unit. The secondary damper can be a gravity damper or a damper with an actuator.
- A louver with a bird protection grille must be installed on the air inlet.

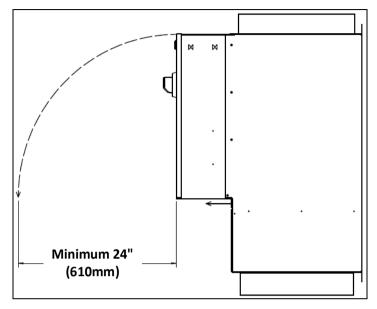




#### Specification and Installation Instructions

#### Clearance

- Leave a minimum clearance of 24" (610mm) or equivalent to the length of the front access panel/door (see dimension E on page 3) + 1.5" (38mm) at the front of the unit, in order to provide sufficient space for accessing the electrical compartment and air filter, to ensure proper servicing.
- Other surfaces require zero clearance.

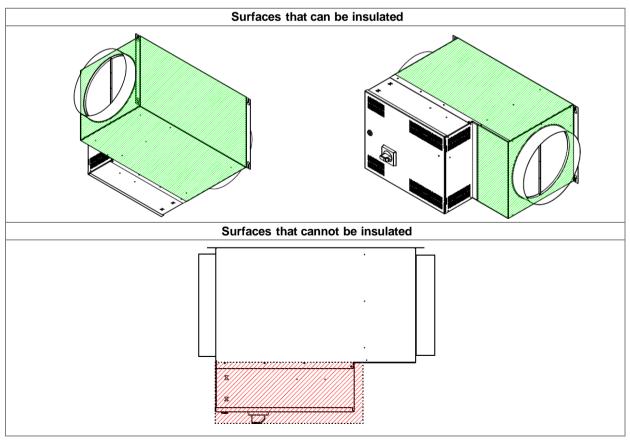


#### Insulation

- Insulation may be added around the main surfaces of the CMU for energy conservation and noise reduction. The collars and ductwork preceding and following the CMU may be insulated.
- Insulation must be rated for temperatures of minimum 250°F (121°C) and must not have an R-value greater than 8 (typical R-value for 2" [51mm] thick fiberglass insulation).



Warning, Do not apply insulation on the control box, front access panel, heat sinks and filter of the CMU.

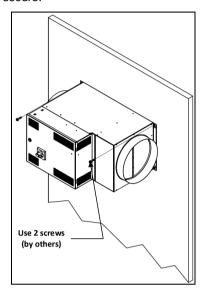




### Specification and Installation Instructions

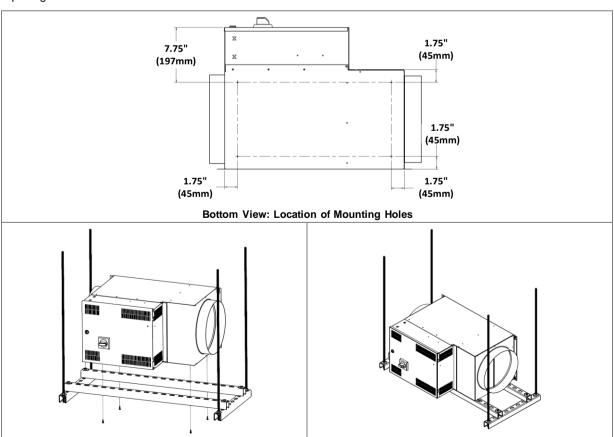
### **Wall Mounting**

- Prior to installation, ensure that the strength of the chosen wall and supports conform to the requirements of local codes and regulations. The use of metal strut channels is recommended when wall mounting the unit (by others).
- Mount the unit at a minimum height of 6.5ft (2m) above the floor level.
- Mount the CMU using at least 2 screws of minimum #10 (M5) size (by others) using the keyholes located in the back of the
  unit and ensure that the installation is secure.



#### **Ceiling Installation**

- The CMU can be hung by the ceiling using an appropriate support platform (by others). Consult local codes and regulations for minimum structural requirements for such platforms.
- The CMU must be attached to the platform by use of 4 self-drilling screws of #10 (M5) size fixed at the designated locations indicated by the dimples on the bottom of the unit, as per the image below.
- The screws must not be inserted into the CMU at a depth of more than 3/4" (20mm).
- Ensure not to install the bottom of the unit's front access panel directly onto the platform, as this will prevent it from opening.





#### Specification and Installation Instructions

#### **Electrical Installation**

- DANGER: Risk of electric shock. Disconnect all electrical supplies before working on any circuit.
- CAUTION: Risk of malfunction. Use only copper wires suitable for 221°F (105°C).
- CAUTION: Electric installation must be done by qualified electrician and must conform to local electrical code.
  - CAUTION: If a disconnect switch has not been supplied with control panel of the unit, an external disconnect switch must be installed on the supply.
  - CAUTION: Gauge of electric supply wires must be of appropriate section, function of line current, as per local electrical code.

#### **Power Supply Wiring**

See the name plate for information for voltage and current.

- · Connect all wires to appropriate terminals as per the electrical diagram affixed inside the control panel door.
- Correct connection and proper tightening must be verified before start-up, and after a short period of operation (typically after 2 weeks).

To quickly calculate the amperage, use the following formulas:

• Single phase: Amperage = Watts / Voltage.

ex.: 10 kW at 240V/1 is equal to: 10,000 / 240 = 41.7A

• Three phases: Amperage = Watts / (1.732 x Voltage).

ex.: 20 kW at 600V/3 is equal to: 20,000 / (1.732 x 600) = 19.2A

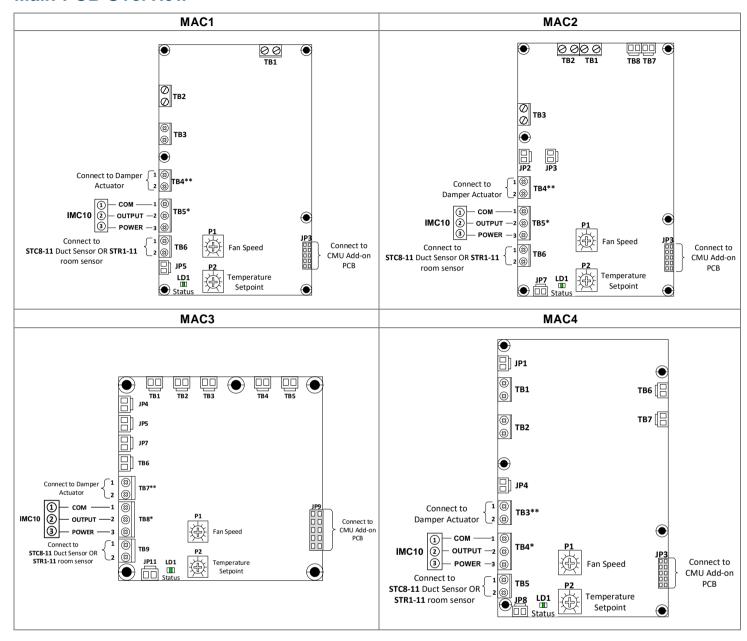
#### **Electrical Diagram Legend**

4	Thermal cut-out automatic reset	ollor or o	Normally open contact	or L1 L2 N	Single phase power supply terminals
	Thermal cut-out Manual reset	<del>}                                    </del>	Disconnect switch	L1 L2 L3	3 phases power supply terminals
∘(C1)∘	Contactor coil		Heating element	Ţ G	Ground terminal
o-(B1)∘	Back-up safety contactor coil	<u>~~</u>	Transformer	C	Common
<del>-//-</del>	Normally closed contact	$\bullet \square \vdash \bullet$	Fuse	×	Light



Specification and Installation Instructions

#### **Main PCB Overview**



<sup>\*</sup> If the IMC10 Room Control Switch is not used, place a jumper or a dry contact for interlock between pins 1 & 2.

<sup>\*\*</sup>This is a normally open dry contact that is rated for 24VAC and up to 1A, it closes when the CMU is in normal operation mode.

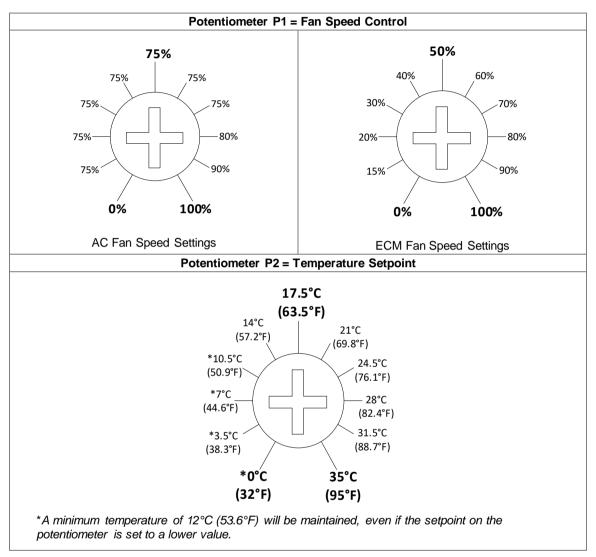


#### Specification and Installation Instructions

#### **Temperature and Air Flow Adjustment**

After installing and wiring the system, use the potentiometers on the PCB to adjust the desired temperature setpoint (P2) and the fan speed control (P1) to adjust the air volume. The fan speed must be adjusted based on the application to compensate for the specific static pressure of the installation.

For models with the optional add-on board with thermostat connection, the setpoint for air flow and temperature from the thermostat will override the physical setting of the potentiometers on the PCB.



## **Operational Conditions**

#### Air Flow

- Air flow must not be lower than the minimum air flow indicated on name plate.
- · Air flow going through the unit must be free of combustible particles, flammable vapour or gas.
- Open Coil: Air flow going through the unit must be free of dust.

#### **Temperature Control**

- For optimal and accurate measurement, it is recommended to use a duct sensor, especially in worst case scenarios in which
  the CMU is operating at its lowest speed with a high static pressure, for example, at a 75% speed with a static pressure of 0.2"
  WC (50 Pa) for AC axial fans.
- Install the STC8-11 duct temperature sensor at a minimum straight duct distance of 2-3 times the duct diameter between the sensor and any obstacle, such as the CMU's outlet, an elbow, a transition, etc., for accurate discharge air temperature rise detection.
- If the optional STR1-11 room temperature sensor is used instead of the STC8-11 duct sensor, install the STR1-11 at a location
  where it can accurately detect temperature rise.
- If the optional TDF thermostat is used for remote temperature control and its temperature control mode is set to "RAT" (room air temperature), make sure the TDF is installed at a location where it can accurately detect temperature rise.



#### Specification and Installation Instructions

#### **Zero Clearance Construction**

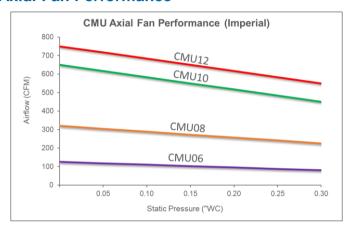
Neptronic compact make-up air units are designed and approved for zero clearance to combustible material. Insulation material
may be installed directly onto the CMU surfaces or onto air duct. However, the control panel must be accessible for
maintenance.

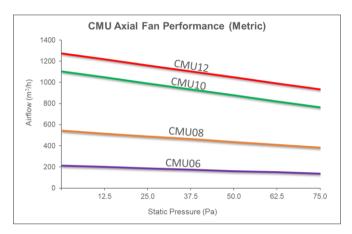


Warning, Risk of fire and/or malfunction, Do not install insulation directly on heating elements.

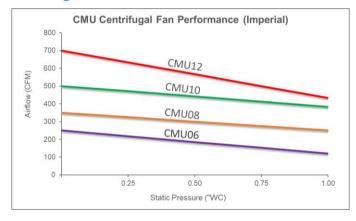
#### **Fan Performance**

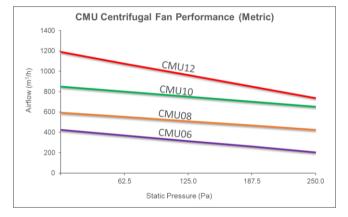
#### **Axial Fan Performance**





#### **Centrifugal Fan Performance**

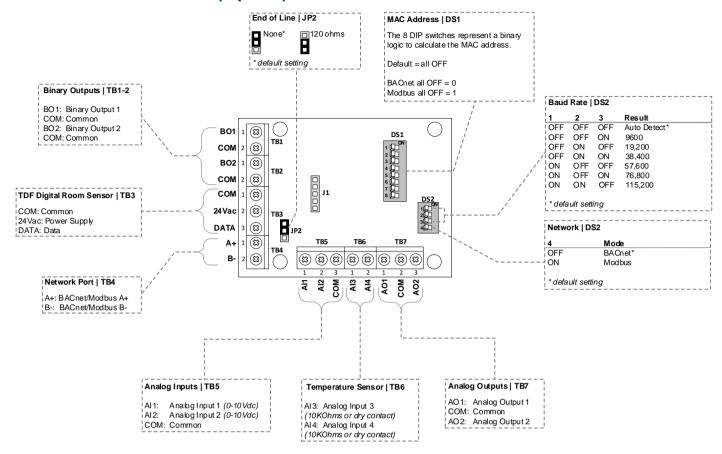






#### Specification and Installation Instructions

## **Add-on PCB Overview (Option)**



#### **MAC Address DIP Switch (DS1)**

MAC address for BACnet and Modbus communication, are selectable by DIP switch DS1 using binary logic.

#### **BACnet**

- Highest MAC address is 254.
- Default is all switches OFF = MAC address 0
- If you do not change device instance in program mode, it will be automatically modified according to the MAC address.

MAC Address	DS.1 = 1	DS.2 = <b>2</b>	DS.3 = <b>4</b>	DS.4 = <b>8</b>	DS.5 = <b>16</b>	DS.6 = <b>32</b>	DS.7 = <b>64</b>	DS.8 = <b>128</b>	Default Device Instance
0	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	153000
1	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	153001
2	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	153002
3	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	153003
4	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	153004
126	OFF	ON	ON	ON	ON	ON	ON	OFF	153126
254	OFF	ON	ON	ON	ON	ON	ON	ON	153254

#### Modbus

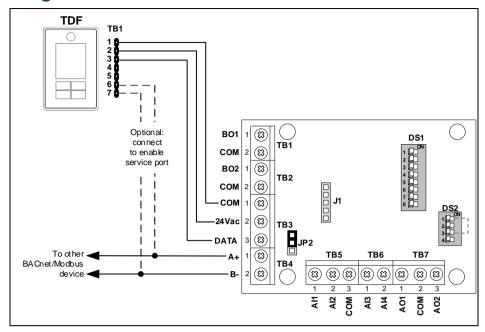
- Highest MAC address is 247.
- Default is all switches OFF = MAC address 1
- MAC address is binary value +1
- There is no device instance for Modbus.

MAC Address	DS.1 = 1	DS.2 = <b>2</b>	DS.3 = <b>4</b>	DS.4 = 8	DS.5 = <b>16</b>	DS.6 = <b>32</b>	DS.7 = <b>64</b>	DS.8 = <b>128</b>
0+1 = 1	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
1+1 = 2	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
2+1 = 3	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF
3+1 = 4	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
4+1 = 5	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
126+1 = 127	OFF	ON	ON	ON	ON	ON	ON	OFF
246+1 = 247	OFF	ON	ON	OFF	ON	ON	ON	ON



Specification and Installation Instructions

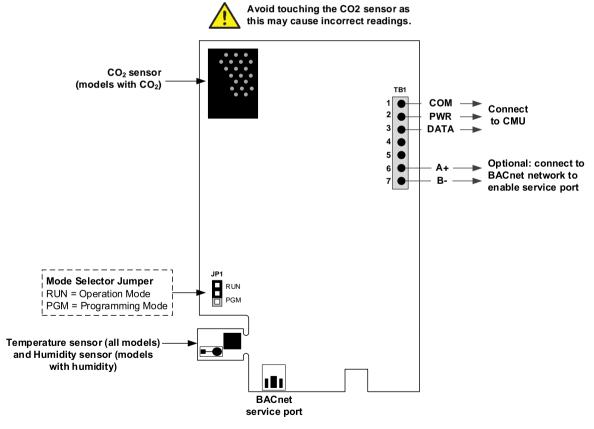
## Wiring to TDF Digital Room Sensor



#### **TDF PCB Drawing**

3 wire cable (TB1 #1, 2 & 3)

Connect TB1 #6 (A+) & #7 (B-) to CMU to enable the BACnet service port.



#### **Mode Selection (JP1)**

JP1 RUN PGM	RUN: Digital Room Sensor is in Operation Mode. Digital Room Sensor must be set in this mode for normal system operation. If not locked, setpoint and control mode can be changed by the end user.
JP1 RUN PGM	PGM: Digital Room Sensor is set in Programming Mode. Refer to the following sections for more details.



Specification and Installation Instructions

## Access to Menus (Add-on PCB and TDF Required)

The programming menu can be accessed using the TDF digital room sensor by connecting it to the optional add-on PCB. Ensure that the TDF Mode Selection jumper (JP1) is set to PGM. Use the following action buttons to access the menus and save changes using the TDF.

#### **Action Buttons on TDF**

Action Button	Task				
•\$	Press to access the programming menus and save any changes.				
<b>♦</b> /₩	Press to return to the previous step without saving.				

## **LED Error Sequence**

The output on the LED will show when the alarm is active. Following is the LED error sequence:

Error	LED Output
Duct Sensor Fault	Blinks 5 times and stays ON for 5 seconds.
Airflow Sensor Fault	Blinks 10 times and stays ON for 10 seconds.
Automatic/Manual Cutout Tripped	Blinks 15 times and stays ON for 15 seconds.
Normal Operation	Blinks once every 2 seconds.
Any other Scenarios*	LED stays on continuously till the alarm is reset.

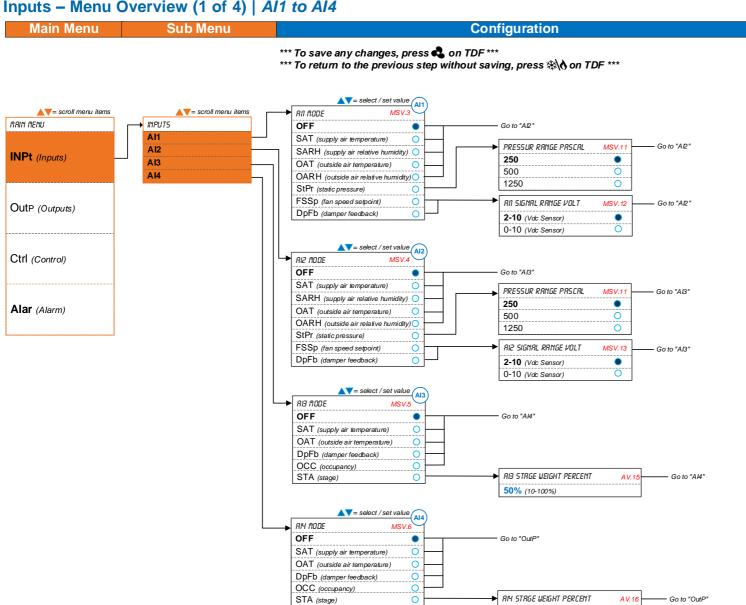
<sup>\*</sup> Other scenarios can include but not limited to:

- 1. Error in Feedback for ECM Fans
- 2. Incorrect configuration of the IO's on the COM board
- 3. Communication error between Add-on and Host Board

For the above scenarios, please contact tech support at the factory for assistance.



#### Inputs - Menu Overview (1 of 4) | Al1 to Al4

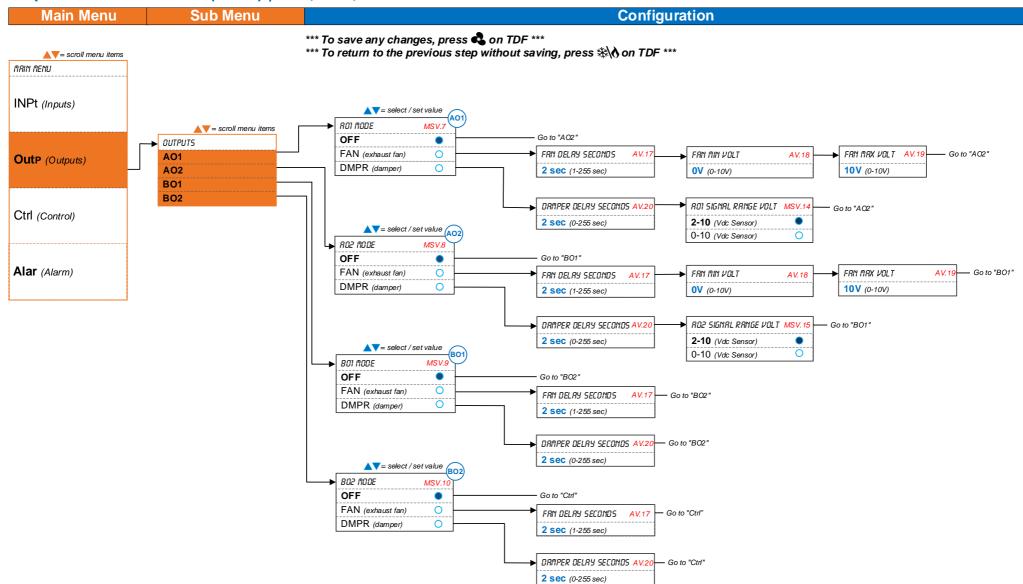


Page | 14 www.neptronic.com

50% (10-100%)

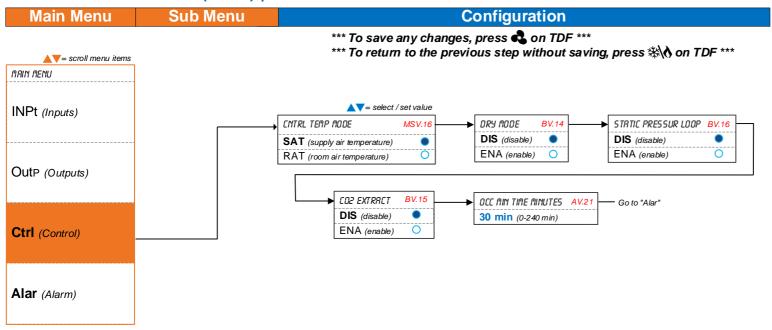


#### Outputs - Menu Overview (2 of 4) | AO1, AO2, BO1 and BO2



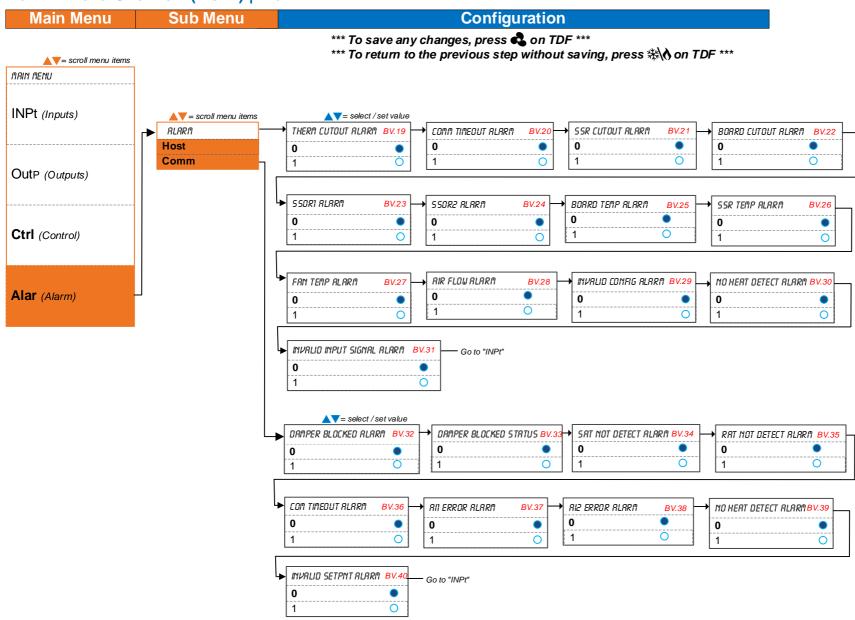


## Control - Menu Overview (3 of 4) | Ctrl





#### Alarm - Menu Overview (4 of 4) | Alar





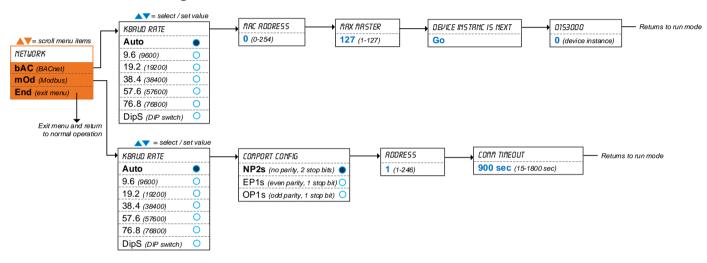
#### Specification and Installation Instructions

#### **Operation Menus**

This menu is accessible through normal operation mode using the TDF digital room sensor.

- 1. The Mode Selector jumper (JP1) of the digital room sensor must be set to the "RUN" position (Operation Mode).
- 2. Press the and the buttons simultaneously for 5 seconds. The "ENTER PRSSWORD" screen appears.
- 3. Enter the password within 1 minute by using the arrow keys to increase or decrease the value and the 4 and 40 buttons to toggle between the digits.
  - a. Password 637 = Network Settings Menu
  - b. Password **757** = Configuration Menu
- 4. If you enter the wrong password, the digital room sensor displays "**Eror**" and returns to Operation Mode. The digital room sensor will return to normal mode if you navigate through the entire menu and do not make any selection, or if you do not press any key for 5 minutes. The changed values will be saved automatically.

#### Menu 637 - Network Settings



\*\*\* To save any changes, press 🕏 on TDF \*\*\*

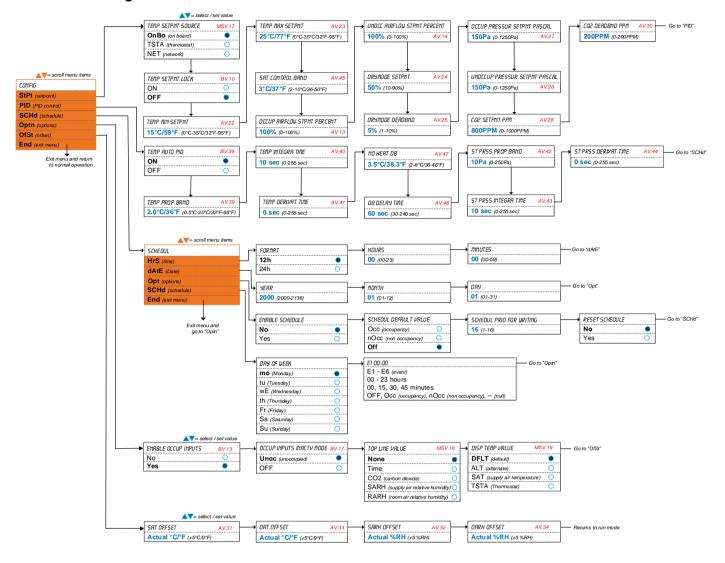
\*\*\* To return to the previous step without saving, press \*\* on TDF \*\*\*

www.neptronic.com



#### Specification and Installation Instructions

#### Menu 757 - Configuration



Page | 19 www.neptronic.com

<sup>\*\*\*</sup> To save any changes, press d on TDF \*\*\*
\*\*\* To return to the previous step without saving, press \*\* on TDF \*\*\*



## Specification and Installation Instructions

## **Start-up Procedure**



Initial verification and start-up must be carried out by suitably qualified personnel.

It is strictly recommended to follow this start-up procedure to avoid any anomaly resulting from inaccurate installation of the

Initial Verification	_					
Clearance	1.	Ensure that the Make-Up Air Unit is installed in a location in which the unit can be serviced correctly.				
Electrical Supply	2.	Verify that the power supply (voltage) conforms to the name plate on the side of the unit's control panel.				
	3.	Ensure that the STC8-11 duct temperature sensor is adequately installed into the discharge ventilation duct at a minimum straight duct clearance of 2-3 times the equivalent duct diameter. Verify that it is wired to the unit's main circuit board.				
	4.	If the STR1-11 room temperature sensor is used instead of the STC8-11, ensure that it is installed in the space at a location where temperature rise can adequately be detected. Verify that it is wired to the unit's main circuit board.				
Controls	5.	Verify that the fan speed and temperature setpoints are properly adjusted via potentiometers P1 and P2 respectively on the main circuit board.				
Controls	6.	Ensure that a room control switch is installed properly and wired to the IMC10 termina block on the unit's main circuit board. If an IMC10 is not used, verify that a jumper or a dry contact for interlock is connected between pins 1&2 of that terminal block.				
	7.	If a wall mount TDF controller is used, verify that it is correctly installed and properly connected to the unit's plugin circuit board. Verify that the setpoints are properly adjusted and confirm the control set-up.				
	8.	Turn the power on using the disconnect switch or circuit breaker.				
Start-Up	_					
	1.	Proceed to start-up the Make-Up Air Unit, as follows:				
		<ul> <li>Turn on the Make-Up Air Unit using the disconnect switch or circuit breaker. Verify that the Status LED on the main circuit board is blinking once every 2 seconds.</li> </ul>				
Start-up		b) Verify that the unit's fan is operating and that its inlet damper is open.				
		<ul> <li>Verify that the temperature sensor is detecting a rise in temperature while the unit is operating.</li> </ul>				
	_	d) Verify that the unit is modulating its heat output to maintain selected temperature setpoint.				
End	2.	The Make-Up Air Unit is now ready for normal operation.				



#### Specification and Installation Instructions

#### **Maintenance**

Neptronic make-up air units do not require specific maintenance; however, we recommend a **yearly** inspection, typically before the winter season or after a long term shut down.

#### **Visual Inspection**



Risk of electric shock. Disconnect all supplies before any visual inspection.

- Verify condition of heating elements.
- Heating element must be clean and free of dust or lint.
- o Open Coil: Carefully verify that there is no dust accumulation. Any dust of lint accumulation can lead to fire hazard.
- Verify any indication of overheating conditions (discoloration) as well as any trace of oxidation (rust).

#### **Electrical Inspection**



Risk of electric shock. Disconnect all supplies before any electrical inspection.

- Verify that electrical connections are correct and properly tightened.
- Verify the condition of fuses.
- Verify resistance of each circuit against ground.
- Verify correct operation of contactor(s).
- o If necessary, electrical components must be replaced only with identical origin components.

#### **Filter Maintenance**

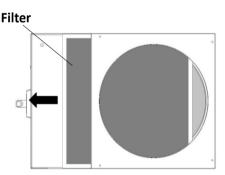


Risk of electric shock. Disconnect all supplies before removing and inspecting the filter.

- O CMU is equipped with a filter that must be washed at regular intervals.
- Check the filter after two months of operation.
- o To take out the filter, remove the access cover by disconnecting the two screws.
- o If the filter is extremely dirty, increase the frequency of inspections.
- o Ensure that the filter is dry before replacing it.



Warning, the CMU must always have a filter installed at this location even if an auxiliary filter is used.



#### **General Warranty**

This product is subject to the terms and conditions described at <a href="http://www.neptronic.com/Sales-Conditions.aspx">http://www.neptronic.com/Sales-Conditions.aspx</a>.

## **Technical Support**

For any questions or specific requests, please consult our web site: <a href="www.neptronic.com">www.neptronic.com</a> Or call: 1 800 361-2308 or (514) 333-1433.

Notes			





# neptronic

400 Lebeau blvd, Montreal, Qc, H4N 1R6, Canada www.neptronic.com

Toll free in North America: 1-800-361-2308

Tel.: (514) 333-1433 Fax: (514) 333-3163 Customer service fax: (514) 333-1091

Monday to Friday: 8:00am to 5:00pm (Eastern time)