

Installation and Maintenance Manual RG-AHU Series



For long term reliability and proper function of Tempeff equipment, it is essential that these instructions are followed.

These are general instructions, valid where applicable

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FOR TEMPEFF AIR HANDLING UNIT WITHOUT DUAL CORE HEAT EXCHANGERS

General

The instructions for assembly, operating and maintenance must be followed carefully in order to achieve short and long term function and reliability. It is also a prerequisite for the warranty to apply.

This manual shall be easily accessible to the staff responsible for the operation of this unit.

If the product is modified or changed without consent or instruction from Tempeff the ETL listing (if applicable) may no longer be valid, and the warranty may no longer be valid.

Due to the custom nature of the product not all cases are covered in this manual. In the cases where special items are included in the product, specific instructions can be obtained from the local authorized Tempeff Representative, or by contacting the Tempeff Factory.

INTENDED USE

The unit is intended for comfort heating/cooling use only with no mixing of corrosive or flammable gases.

Storage

Failing to follow the enclosed instructions may cause damage to the equipment, and void warranty.

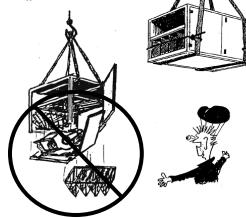
- 1) When storing both indoor and outdoor units, openings and access doors must be sealed
- 2) Equipment must be adequately protected from weather until final installation is complete. Equipment stored outdoors must be heated. NOTE: Factory shrink wrap or poly is not considered sufficient protection against the weather when stored in an area exposed to the elements. The contractor is responsible for fully tarping the equipment to prevent damage from weather or construction damage.
- 3) During extended periods of storage, it is important to rotate the fan and motor bearings by hand at least once a month to prevent bearing damage. The bearings should also be greased at the same frequency. Ensure bearings are not over greased as it may result in ruptured seals and premature bearing failure once in operation.
- 4) To ensure equipment stays in as-shipped condition, and to avoid corrosion, inspect the equipment twice weekly while in storage. If moisture is discovered on the surface of the equipment immediately heat and ventilate the equipment to prevent corrosion.



Instructions for lifting with a Crane

LIFT With soft straps under the unit.

Ensure that the straps are secured so they don't glide off.



When using lifting lugs to raise the unit spreader bars must be used to prevent damage to the equipment. If lifting lugs are not present each unit must be lifted with soft straps under the lower framework. Since the profiles used are slippery, the soft straps must be secured to keep the straps from sliding off.

The unit is not designed to carry its' own weight from the upper framework.

WARNING!

The upper framework and/or extending parts of the unit may not be used for lifting.

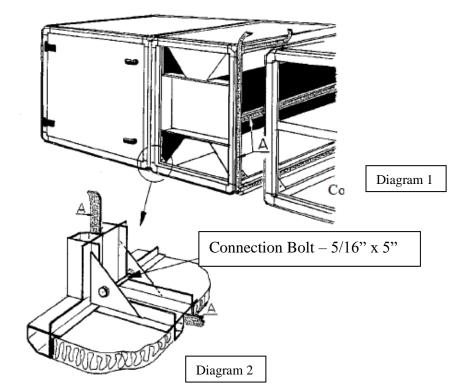
Mounting the individual sections

Unit shall be placed on a solid and bare surface suitable for the present environment and installation, such as elevated for drain connection if applicable.

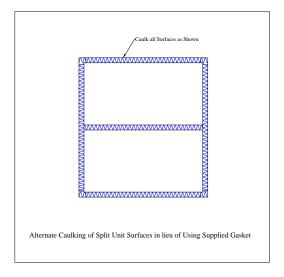
Due to the weight of internal components it is necessary to ensure that all parts of the unit are well supported, not only under the outer framework but also in between the outer frame. Units wider than 1.5 m supports not wider than 0.8 m (32 inches) from each other.

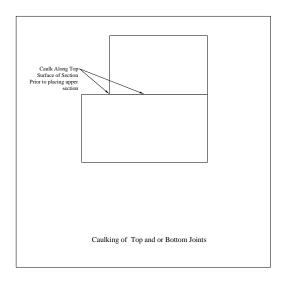
A (Diagram 1 & 2) = self adhesive gasketting shall be used where the units connect to each other. Suitable high quality

caulking may be used in lieu of gasket. (Page 4)





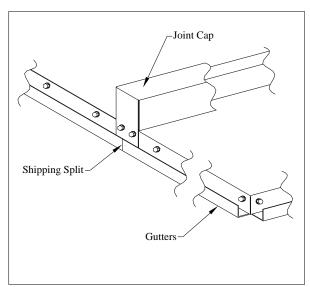




Outdoor units with sections stacked one on top of the other should be caulked prior to placing the section on the other.

OUTDOOR SPLIT SECTIONS

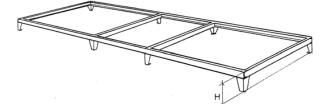
For each split on an outdoor unit a split cap is provided to bridge the roof splits. This cap is an integral part of the roof structure and must be installed. Pre-drill pilot holes on side of cap, then fasten using common sheet metal screws. A minimum of 2 screws per side are required.





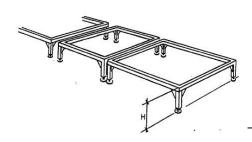
Suggested Framework

The unit shall be assembled on a solid and plain surface. A frame of square steel bars is recommended. It must be supported at each end and at each unit connection. Support leg to slab, or rod from roof shall also be fit at each end and each unit connection as shown on the picture.



When designing the frame the weight of the unit must be accounted for. Note that the weight of the cell packs makes the units heavier than normal AHU's.

Therefore units with widths greater than 1.5m (4.92 feet) must be supported by two outer bars. Max width between bars is 800mm (32 inches).



Smaller RG units can be mounted directly on rigid mineral fiber insulation boards placed on the floor slab if it is level and if a water drain trap is not required.

Leveling (to within 1/8" per 10 ft) shall be made using water level or laser instrument. If the unit requires a water drain trap the height of the legs shall be calculated accordingly. See page 7 for details.

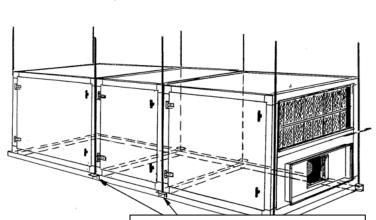
Hanging the unit

If the unit is to be hung, it must rest on a framework supported by rods hanging from the roof.

Support rods shall be centered with the connections between the sections of the unit and the connection points between the rods and the frame shall be located so that the rods don't interfere with the opening of the doors or the connection of ducts.

When designing and building the supporting frame work (by others) and rods the weight of the unit must be taken into consideration. The cell packs make the units

heavier than traditional air handlers. Level to within 1/8" per 10 ft.



Rods connect to the framework (supplied by others) outside the unit and center with the unit section connection point.



Connecting Cooling and Heating Coils

In all cases, coil manufacturers installation instructions take precedence.

With water coils, ensure the connections are made so that leaving water from the coil is what the entering air sees (counterflow).

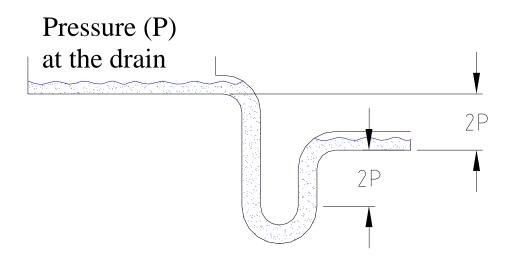
Mounting an anti-freeze protection device on water coils is strongly recommended to prevent damage to the coil due to freezing. Frost damage is not covered by warranty.

When installing couplings, do not apply undue stress to the connection. Use a backup pipe wrench to avoid breaking the weld between coil connection and header.

Ensure care is taken when handling and connecting coils. Connections and pipes are fragile, and can easily be damaged.

Installing Condensate Drain Traps

Units equipped with optional drain connection must have drain traps field provided and installed on each drain. On both blow-through and draw-through units, the trap depth and the distance between the trap outlet and the drain pan outlet should be twice the static pressure in the drain pan section under normal operation for the trap to remain sealed. For example is the pressure is 2" W.C, 2P will be 4" deep.



This height will also determine the height H of the mounting framework as detailed on page 4. H should be 4P, plus 2".

<u>IMPORTANT NOTE:</u> If Traps are to operate when located in cold areas (ie. Outdoor mounted units, heat exchanger condensate drains) it is recommended that the trap and any drain lines be heat traced for reliable operation in cold temperatures.



Installation Requirements

- 1. Service clearances must be maintained on the access side of the unit. Recommended minimum clearances are equal to the section length if unit is equipped with single door, or section length/2 if unit is equipped with double door, as clearance must be sufficient to open doors. Consult dimensional diagram to verify required service clearances.
- 2. All relevant local and national codes (NEC or CEC) must be adhered to for clearances to electrical connections. 1m or 36 inches is the minimum from the face of any electrical enclosure to any wall or obstruction.
- 3. Installer is also responsible for checking tightness of all electrical terminals and connections, as these connections may become loose during shipping and result in performance issues.
- 4. Consult wiring diagram to verify which electrical connections must be made in the field, such as unit power, and field connections for the damper to be controlled by BMS. All wiring must be performed in accordance with all applicable codes and ordinances. Warranty is voided if wiring is not in accordance with these standards.
- 5. If unit is controlled by BMS, controls contractor must ensure the dampers are first on and last off (after the blowers have been shut down) to avoid damage to the dampers.
- 6. If unit is equipped with blowers, ensure that shipping blocks have been removed from isolation frame.

Before Start-up

- 1. Ensure that unit is completely and properly installed, and all ductwork is connected. Ensure that all construction debris has been removed, and that filters are clean.
- 2. Verify that all electrical connections have been made, and check to ensure that correct voltage has been applied to the appropriate sections. Check to ensure electrical connections are tight.
- 3. Rotate the fans manually to ensure they rotate freely. Check to ensure that belts have been tightened and sheaves aligned using a straight edge.
- 4. Verify that all damper blades close properly. Blades should be tight enough that a finger cannot be pushed through but not so tight that the damper blade causes the housing to deflect. Excessive tension can cause damage to damper section.
- 5. Check setscrews and nuts/bolts in damper linkages, bearings and fan wheels (if unit is equipped with blowers). Note that equipment damage due to loose fasteners is improper start-up and will not be covered under warranty!

After 48hrs:

- Ensure unit has been properly locked out. Check tightness of all bearing, wheel and sheave setscrews.
- b. Check belt tension.
- 6. Verify that all holes in floors are sealed to prevent water leakage.



Start-up/Commissioning procedure

When performing start-up and service, thorough safety precautions must always be taken. These functions must always be performed by trained, experienced personnel. View "Before Start-up" description before attempting start-up.

⚠ WARNING

FIRE/ELECTRIC SHOCK HAZARD.

Can cause property damage, personal injury or death. Fan power supply must be wired and motor frame grounded in accordance with local electric codes.

⚠ AVERTISSEMENT

Risques d'incendie et d'électrocution pouvant causer des dommages matériels, des blessures et même la mort. L'alimentation électrique du moteur du ventilateur de même que la mise à la terre du chàssis du moteur doivent être faits conformément aux codes d'installations électriques en vigueur.

⚠ WARNING

FAN MOTOR REQUIRES OVERLOAD PROTECTION.

Failure to provide motor overload protection can result in fire, property damage, electric shock, personal injury or death. Connect motor to an overload protective device rated in compliance with local electric codes.

AVERTISSEMENT

Risques d'incendie et d' électrocution pouvant causer des dommages matériels, des blessures et même la mort. Connecter au moteur du ventilateur électrique un dispositif de protection contre les surcharges conforme aux codes d'installations électriques en vigueur.

⚠ WARNING

ROTATING FAN

Can cause severe injury or death. Before servicing fans, lockout and tag out power.

AVERTISSEMENT

PIÈCES MOBILES DANGEREUSES.

Avant de réparer ou entretenir les ventilateurs, coupez l'alimentation èlectrique de cet appareil et bloquez le commutateur à OFF.

- 1. Verify that there is power to the fan motors
- 2. Verify that there is power to the unit control cabinet (consult wiring diagram for unit control cabinet power terminals)
- 3. Enable supply air fans and/or exhaust air fans, and check for correct rotation. If incorrect rotation, correct wiring to ensure fans rotate in proper direction.
- 4. Check supply and exhaust motor amp draws against rated amp draw on motor rating plate.
- 5. If unit does not operate as expected, consult wiring diagram and begin troubleshooting wiring with your voltmeter. Ensure all wiring terminations have been tightened.



Maintenance

Regular maintenance is necessary to ensure the efficient operation and long life of this unit. This maintenance should be performed by, or supervised by qualified service personnel. A maintenance schedule should be prepared for the unit based on its application and location.

Recommended Monthly Maintenance

- 1. Check for loose connections in the wiring
- 2. Check the voltage at the unit while it is in operation.
- 3. Check motor amperage draws against the rating plate values.
- 4. Inspect all contactors to ensure that they are clean and making good contact.
- 5. Clean or replace air filters if necessary.
- 6. Check all damper, linkages and damper actuators, adjust and tighten as required.
- 7. Check all belts; adjust or replace as necessary.
- 8. Check operation of all safety controls.

Recommended Yearly Maintenance

- 1. Perform the monthly maintenance recommended.
- 2. Inspect the blower wheels and housing; clean if necessary
- 3. Inspect all setscrews on blower wheels and pulleys to ensure they are secured to their respective shafts.
- 4. Inspect all operating and safety controls; clean and replace if necessary.

BEARING INSTALLATION AND MAINTENANCE

NOTE: To prevent premature failure – please ensure greasing instructions below are applied. As well, tighten bearing set screws, collars, and wheel lugs every four to six months.

BALL & ROLLER BEARINGS LUBRICATION

For bearings that are equipped with a hydraulic grease fitting threaded into the housing the proper amount of lubricant in the bearing is important. Both excessive and inadequate lubrication may cause failure.

The bearings should be re-lubricated while they are rotating (if it is safe to do so); the grease should be pumped in slowly until a slight bead forms around the seals. The bead in addition to acting as an indicator of adequate relubrication provides additional protection against the entry of foreign matter and helps flush out contaminates in the bearing.

By the time the slight bead has formed, it will be noticed that the bearing temperature will rise. It is not uncommon for the temperature to raise as much as 30°F after re-lubrication. If necessary to re-lubricate while the bearing is idle, refer to the recommended re-lubrication grease chart tables on the following page for various sizes of the bearings.

LUBRICANT - STANDARD BEARINGS

All bearing units are pre-lubricated at the factory with lithium soap grease, which is compatible with multi-purpose grease readily available from local suppliers. The lubricant selected for factory lubrication uses a highly refined mineral oil with a high viscosity index, thickened with lithium soap to conform to NLGI grade 2 consistency. A suitable additive package is added to protect the highly polished rolling contact surfaces from corrosion and oxidation of the lubricant. The lubricant is satisfactory for an operating temperature range of -30°F to +250°F.

Select standard industrial grade greases that conform to the following specifications for optimum bearing performance:



General Duty Ball & Roller; 58-75 SUS @ 210°F 450-750 SUS @ 100°F

Premium Duty Ball & Roller; 68-75.1 SUS @ 210°F 600-750 SUS @ 100°F

Heavy Duty Roller Bearing; 82 SUS @ 210°F 886 SUS @ 100°F

NOTE: For heavy loaded roller bearing applications, grease with EP additives is often recommended for optimum performance.

TABLE: RECOMMENDED LUBRICATION

Ball Bearings		Roller Bearing		
Shaft Size (inches)	Grease Charge (ounces)	Shaft Size (inches)	Grease Charge (ounces)	
1/4 to 3/16	0.03	1-3/16 to 1-1/4	0.1	
½ to ¾	0.1	1-3/8 to 1-7/16	0.22	
1-1/4 to 1-1/2	0.15	1-1/2 to 1-11/16	0.32	
1-11/16 to 1- 15/16	0.2	1-3/4 to 2	0.5	
2 to 2-7/16	0.3	2 to 2-3/16	0.55	
2-1/2 to 2-15/16	0.5	2-1/4 to 2-1/2	0.65	
3 to 3-7/16	0.85	2-11/16 to 3	0.85	
3-1/2 to 4	1.5	3-3/16 to 3-1/2	1.25	
-	-	3-15/16 to 4	2.5	
-	-	4-7/16 to 4-1/2	3.1	

Frequency of re-lubrication depends on operating conditions. The bearing operating temperature is the best index for determining a re-lubrication schedule. The following chart gives the frequency of re-lubrication based upon continuous operation for various operating temperatures and can be used as a satisfactory guide for determining when bearings should be re-lubricated.

TABLE: LUBRICATION FREQUENCY

Speed	Temperature	Cleanliness	Greasing Interval
100 RPM	Up to 120 °F	Clean	5 months
500 RPM	Up to 130 °F	Clean	2 months
1000 RPM	Up to 210 °F	Clean	2 weeks
1500 RPM	Over 150 °F	Dirty	Weekly
Any speed	Up to 150 °F	Dirty	1 week to 1 month
Any speed	Over 150 °F	Dirty	Daily to 1 week
Any speed	Any temperature	Very dirty	Daily to 1 week
Any speed	Any temperature	Extreme Conditions	Daily to 1 week

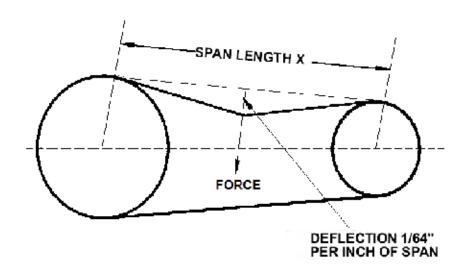


TENSIONING V-BELT DRIVES

- 1. Ideal tension is the lowest tension at which the belt will not slip under peak load conditions.
- 2. Check tension frequently during the first 24-48 hours of operation.
- 3. Over-tensioning shortens the belt and bearing life.
- 4. Keep belts free from foreign material that may cause slip.
- 5. Make V-drive inspection on a periodic basis. Re-tension when slipping occurs. Never apply belt dressing as this will damage the belt and cause early failure.

Check and tighten belt tension. The following procedure is recommended for tightening belts:

- a. Measure span "X" shown in Figure A.
- b. At the center of span length "X", apply a force perpendicular to the span and large enough to deflect belt 1/64" for each inch of span length. Example the required deflection for a 40" span would be 40/64" or 5/8".
- c. Compare the force applied with the values given in the table below. If the force is between the minimum and maximum range shown, the drive tension should be satisfactory. A force below the minimum value indicates an under tightened belt and a force that exceeds the maximum value indicates an over tightened belt.



BELT CROSS	MOTOR PULLEY	DEFLECT	ION FORCE	
SECTION (Marked on Belt)	PITCH DIAMETER	MINIMUM	MAXIMUM	
	3.0" - 3.6"	2.62 lbs	3.25 lbs	
A	3.8" - 4.8"	3.0 lbs	4.0 lbs	
	5.0" - 7.0"	3.25 lbs	5.0 lbs	
В	3.4" - 4.2"	3.0 lbs	5.0 lbs	
	4.4" - 5.6"	4.0 lbs	5.87 lbs	
	5.8" - 8.6"	5.25 lbs	7.87 lbs	



Product Warranty

Warranty on Tempeff Heat Recovery devices is one (1) year from unit start-up date or 15 months from date of shipment from our factory.

Our warranty applies for original shipment on all parts and components fabricated by or installed by us with the exception of air filters, and blower belts.

Within the one year warranty, replacement parts will be shipped collect and charged to customer account with credit being issued after receipt of, and examination of the returned parts: freight prepaid to the factory.

This warranty does not include freight, labor, or sales tax that may be incurred by the purchasers and is subject to the following conditions:

- 1) The unit shall be installed by a qualified heating or ventilation contractor in accordance with the provisions of the service manual.
- 2) The unit shall have been installed in accordance with all national and local codes.
- 3) The unit shall have been subject to only normal use in service and shall not have been misused, neglected, altered or otherwise damaged.
- 4) The unit shall have been operated within its published capacity and with the prescribed fuel.
- 5) All automatic controls shall have been operative at all times.
- 6) There is no evidence of tampering or deliberate destruction.
- 7) Frost damage to coils is not covered by this warranty

No representative of Tempeff or any of its distributors or dealers is authorized to assume for Tempeff any other obligations or liability in connection with this product, nor alter the terms of this warranty in any way. This warranty is limited to the express provisions contained herein and does not extend to liability for labor or travel costs incurred in replacing defective parts.

Authorization to return any alleged defective parts must be obtained from the factory before the part is transported and the owner shall prepay the transportation charges for any alleged defective parts. Tempeff will not accept charges for parts purchased unless the conditions of this warranty have been satisfied.

The express warranties herein contained are in lieu of other warranties, expressed or implied, including the warranty of merchantability and of fitness for any particular purpose. Tempeff shall not be liable for damages, including special, incidental, or consequential damages arising out of or in connection with the performance of the heat recovery devices, or its use by the owner. Tempeff liability is limited exclusively to repair and or replacement of the defective part. Parts can be obtained from Tempeff, 675 Washington Ave, Winnipeg, Manitoba, R2K 1M4, on the basis that credit will be issued if defective parts returned qualify for replacement pursuant to the terms and conditions of this warranty.

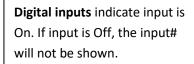
Schneider M172P Controller Guide

Date:	May 13, 2021	No:	FWI004
Scope:	Controller guide	Products:	All product lines

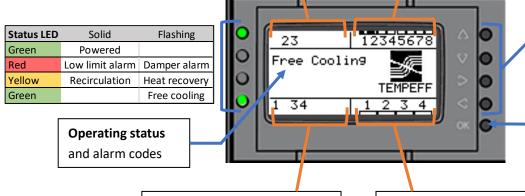


Instruction Details:

Home Screen & Navigation



Analog inputs with status bar to indicate 0 to 100% input status



Navigation buttons to adjust settings & to jump between fields

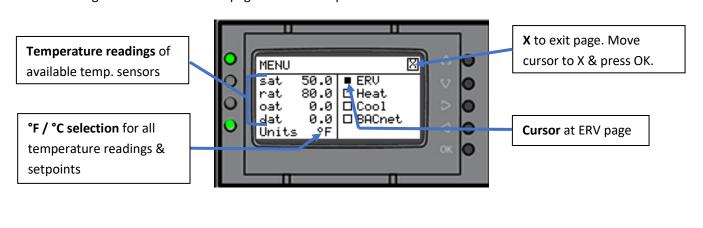
OK to open pages, to enter & save new values

Digital outputs indicate output is On. If output is Off, the output# will not be shown.

Analog outputs with status bar to indicate 0 to 100% output status

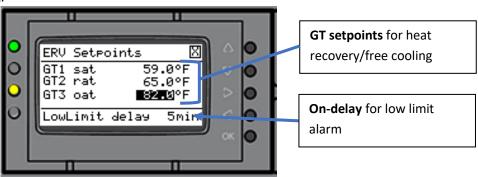
Main Menu

- 1. The controller starts up with the Home screen.
- 2. Press OK to enter the MENU page.
- 3. Use navigation buttons to select page of interest & press OK.



ERV Menu

- 1. On the MENU page, navigate to ERV & press OK to open the ERV page.
- 2. To edit GT3 setpoint, move to the field highlighted below and press OK.
- 3. Use the Left & Right arrow to move between digits, Up & Down arrows to adjust the value.
- 4. Press OK to save new setpoint.

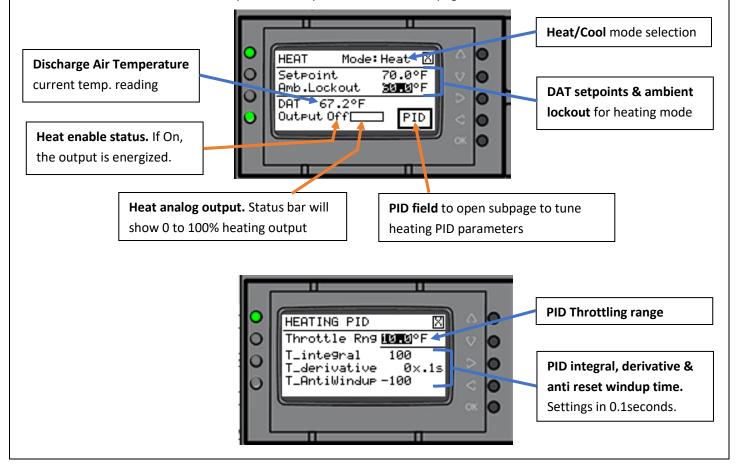


Other Sample Pages

1. Custom pages & subpages may vary, depending on unit layout & control features.

HEAT & HEATING PID

- 1. On the MENU page, navigate to HEAT & press OK to open the HEAT page.
- 2. To edit heat ambient lockout, move to the field highlighted below and press OK.
- 3. Use the Left & Right arrow to move between digits, Up & Down arrows to adjust the value.
- 4. Press OK to save new setpoint.
- 5. Move down to the PID field & press OK to open the HEATING PID page.



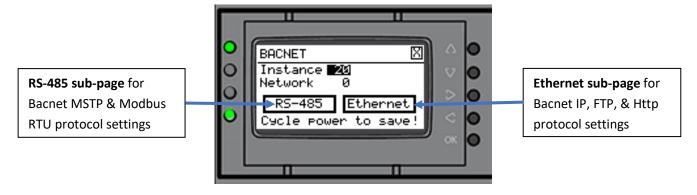
BACNET

Note: This controller is Bacnet capable. Bacnet must be requested at time of order.

- 1. If ordered with Bacnet, go to the MENU page, navigate to BACnet & press OK to open the page.
- 2. Depending on the Bacnet protocol in the building, select either RS-485 or Ethernet to open the appropriate subpage for further settings.

Note: Default protocol is Bacnet MSTP. Bacnet IP is disabled from factory.

- 3. Match communication settings to the BMS communication settings.
- 4. Close page & cycle power to save changes.



BACnet/IP over UDP

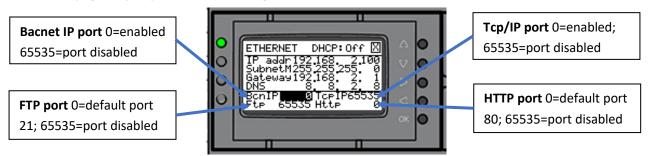
Note: Default protocol is Bacnet MSTP. Bacnet IP is disabled from factory.

- 1. If ordered with Bacnet, go to the MENU page, navigate to BACnet & press OK to open the page.
- 2. Navigate to the RS-485 field & press OK.
- 3. Move cursor to the Protocol field & change protocol to Modbus RTU.



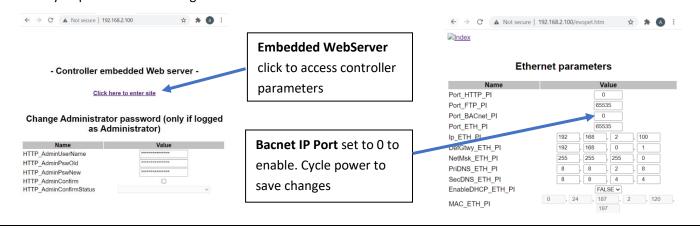
RS-485 protocol select ModbusRTU to disable Bacnet MSTP

- 4. Close the RS-485 page to go back to the Bacnet page.
- 5. Navigate to the Ethernet field & press OK.
- 6. Set the controller IP address and Gateway to IP 192.168.X.X.
- 7. Set BcnIP to 0 to enable Bacnet IP communication.
- 8. Close the page & cycle power to save changes.



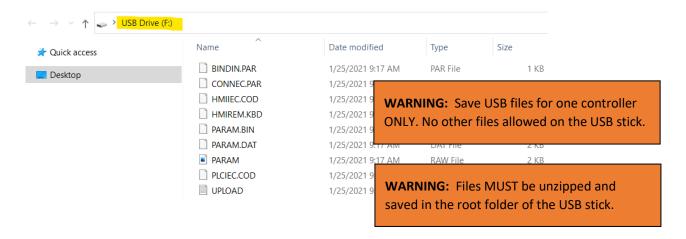
Optional – Embedded WebServer: Configure Ethernet with a laptop

- 1. Navigate to the Ethernet page on the controller. Confirm HTTP port is set to 0.
- 2. Connect laptop to the controller's ethernet port.
- 3. Open a web browser & enter IP address of the controller.
- 4. Go to "Click here to enter site" on the embedded web server page. When prompted, enter User:administrator; password:tempeff1
- 5. Click on Ethernet in Parameters Menu to view current Ethernet settings. Confirm Port BACnet PI set to 0.
- 6. Cycle power to save changes.

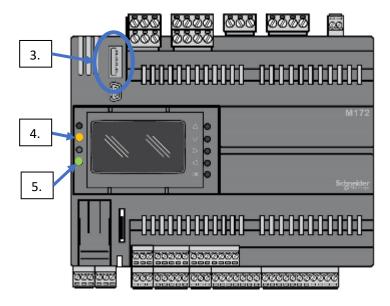


Control Program Update

1. Save revised Schneider USB program files to an empty USB stick.



- 2. Make sure controller is powered. Loss of power during download will corrupt the controller.
- 3. Plug USB stick into controller.
- 4. Yellow LED will turn on to indicate it is loading.
- 5. Yellow LED turns off, 2nd green LED turns on when download complete.
- 6. Remove USB stick.
- 7. Cycle power to restart controller.





Unit Model Number:		_ Unit Se	riai ivumber:_		
Owner:		_ Owner	Phone #:		
Address:					
Installing Contractor:		_ Start-u	p Mechanic:		
		<u>Mair</u>	n Voltage		
Incoming Voltage (3 phase Ur	nits)	L1	L2	L3	
Running Voltage (3 phase unit	ts)	L1	L2	L3	
Incoming Voltage (1 Phase un	its) L1-L2		Running Volt	tage L1-L2	
Secondary Voltage					
Supply Air motor: Rating Plate	voltage:		<u>erage</u>		
Rated amps:	Measured am	nps:	L1	L2	L3
Return Air motor: Rating Plate	voltage:				
Rated amps:	Measured am	nps:	L1	L2	L3
<u>\</u>	/ariable Fred	quency	Drives (If E	Equipped)	
Supply VFD Operating Freque	ancy:				
Cupply VI D Operating Freque		out Volts:	L1	L2	L3
		Amps:	L1	L2	L3
	Measured Ou	ıtput Volts:	L1	L2	L3
		Amps	: L1	L2	L3
Exhaust VFD Operating Frequ	iency:				
	Measured Inp			L2	L3
		Amps:			L3
	Measured Οι		L1	<u>L2</u>	L3
		•	: L1		L3
	<u>Air</u>	Flow/Pe	erformance	2	
Has the Unit Been Air Balance	ed: YN_		Date:		<u> </u>
Upper Heat Exchanger Press	ure Drop:	E	Exhaust Flow: ntake Flow:		<u>-</u>
Lower Heat Exchanger Press	ure Drop:				_ _



Electric Coil

Auxiliary Heating (If Equipped)

Amperage: _____

Voltage: _____

	Temperature Rise:		
Glycol/Water/Steam Coil:	Temperature Rise:		
Gas Burner:	Supply Pressure:	High Fire Pressure:	
	Temperature Rise:	Check Safeties:	
Check Points:			
Verify damper blades sw Verify damper blades clo Verify heat exchangers h After 48 hours of operation: Check and tighten all set Check tightness of drive Check set-screws and de	belts amper linkage tightness in maritchover is smooth (Use S1 states tightly nave been installed correctly (Isscrews for blowers belts amper linkage tightness in maritchover is smooth (Use S1 states)	witch) ength of heat-exchanger in direction of airflow) in damper section	
Auxiliary devices: Check per device manuf	acturers recommendations		
Completed By:		Date:	

DUAL CORE™ TECHNOLOGY

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