°STELPRO

ELECTRIC FURNACE

MODULATING WITH ELECTRONIC CONTROLS

SFECM SERIES

THE FURNACE

5 YEAR WARRANTY

THE ALL-INCLUSIVE FURNACE

°STELPRO introduces a new standard in the electric furnace arena - THE FURNACE. Equipped with an ECM motor, THE FURNACE guarantees greater efficiency and constant air flow. On top of greater savings due to the use of the continuous ventilation mode, this motor makes the most of the humidifier and filtration systems. With THE FURNACE, you have access to top of the line controls for greater temperature management and a much simpler air flow adjustment. There you have it - the all-inclusive package: a quiet motor, compact size, built-in temperature sensor, easy installation and unparalleled ease of use. An electric furnace? You've never seen anything like THE FURNACE!

ECM MOTOR
GUARANTEES SAVINGS, CONSTANT AIR FLOW AND GREATER EFFICIENCY

BUILT-IN TEMPERATURE SENSOR

REDUCED SIZE
PRE-DRILLED PANELS SIMPLIFIES INSTALLATION AND CONNECTION

UPDATED ELECTRONIC CONTROLS
ECO MODE FOR INCREASED SAVINGS

AVAILABLE WITH A 120 V MOTOR (UP TO 27 KW)
A 1 HP MOTOR IS ALSO AVAILABLE (STARTING FROM 20 KW)

FINISH
powdercoated (light charcoal)

MANUFACTURING
- robust galvanized steel cabinet
- compartmentalized door providing easy access to all components
- disposable 20 x 20 in. air filter (included)
- compatibility mechanism for an auxiliary unit (included)
- 1 type of relay for all functions

ELEMENTS
- modulating elements for increased comfort
- elements separately framed allowing for quick and easy replacement

MOTOR
ECM (electronically commutated motor)

CONTROL
- easy-to-use modes
- Continuous ventilation button (low or high speed)
- Continuous heating button (min or max)
- simplified connection system
- mechanical relays allowing for easy and low-cost maintenance

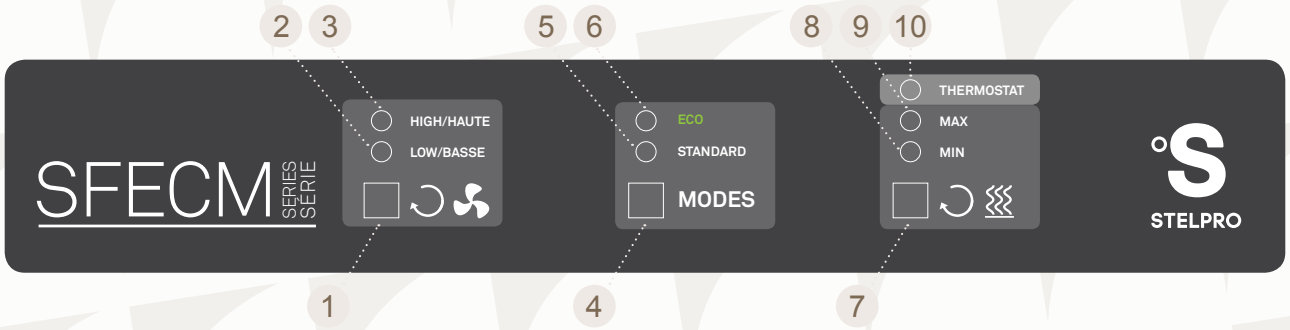
INSTALLATION
- three possible installation positions: upflow, downflow or horizontal
- installation directly against a wall (“zero inch” clearance)
- possible installation with 3 conductors

HRAI MEMBER COMPANY

TECHNICAL SPECIFICATIONS

PRODUCT	POWER AND VOLTAGE		MOTOR		AMPERAGE	POWER	WEIGHT	
CODE	KILOWATTS	VOLTS	SPEED	VOLTS	AMPERES	HP	KG	LB
STANDARD MODELS								
SFECM1021	10/7.5	240/208	MULTI	240/208	44/38	1/2	45	100
SFECM1521	15/11.2	240/208	MULTI	240/208	65/56	1/2	45	100
SFECM1821	17.5/13.2	240/208	MULTI	240/208	75/66	1/2	45	100
SFECM2021	20/15	240/208	MULTI	240/208	85/74	1/2	45	100
SFECM2321	22.5/16.9	240/208	MULTI	240/208	96/84	1/2	45	100
SFECM2721	27.5/20.7	240/208	MULTI	240/208	119/104	1	48	105
SFECM3021	30/22.5	240/208	MULTI	240/208	130/113	1	48	105
OPTIONAL MODELS								
SFECM1021120	10/7.5	240/208	MULTI	120	46/40	1/2	45	100
SFECM1521120	15/11.2	240/208	MULTI	120	67/58	1/2	45	100
SFECM1821120	17.5/13.2	240/208	MULTI	120	77/68	1/2	45	100
SFECM2021120	20/15	240/208	MULTI	120	87/76	1/2	45	100
SFECM20211HP	20/15	240/208	MULTI	240/208	88/77	1	48	105
SFECM20211HP120	20/15	240/208	MULTI	120	95/84	1	48	105
SFECM2321120	22.5/16.9	240/208	MULTI	120	98/86	1/2	45	100
SFECM23211HP	22.5/16.9	240/208	MULTI	240/208	99/87	1	48	105
SFECM23211HP120	22.5/16.9	240/208	MULTI	120	106/94	1	48	105
SFECM2721120	27.5/20.7	240/208	MULTI	120	126/111	1	48	105

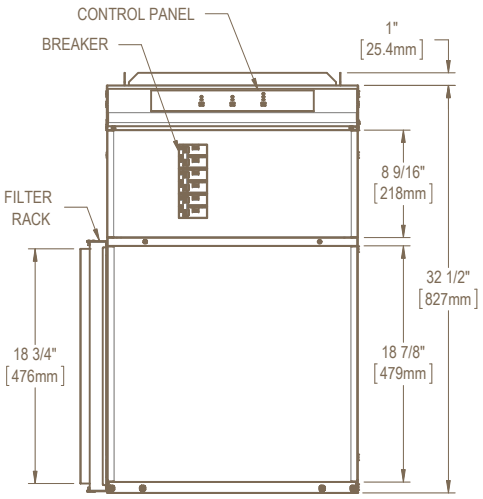
ELECTRONIC CONTROLS



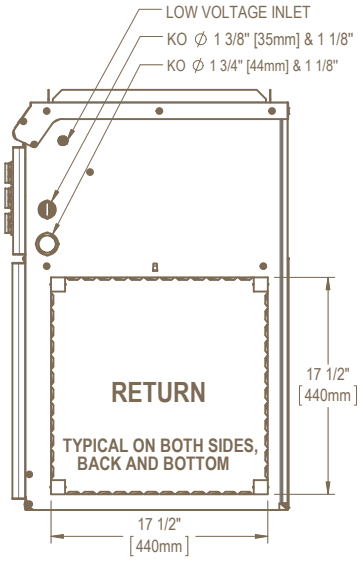
LEGEND

1. **CONTINUOUS VENTILATION** BUTTON
   Allows the selection of the high or low speed continuous ventilation mode.
2. **LOW SPEED CONTINUOUS VENTILATION** GREEN LED
   Indicates that the low speed continuous ventilation mode is activated.
3. **HIGH SPEED CONTINUOUS VENTILATION** GREEN LED
   Indicates that the high speed continuous ventilation mode is activated.
4. **MODE** BUTTON
   Allows the selection of the Standard or Eco mode.
5. **STANDARD MODE** GREEN LED
   Indicates Standard mode is activated.
6. **ECO MODE** GREEN LED
   Indicates that the Eco mode is activated.
7. **CONTINUOUS HEATING** BUTTON
   Allows the selection of the maximum or minimum continuous heating mode.
8. **MIN CONTINUOUS HEATING** GREEN LED
   Indicates that the minimum of heating capacity is activated.
9. **MAX CONTINUOUS HEATING** GREEN LED
   Indicates that the maximum of continuous heating mode is activated.
10. **THERMOSTAT** YELLOW LED
    Indicates that the furnace is receiving a heating demand from the thermostat.

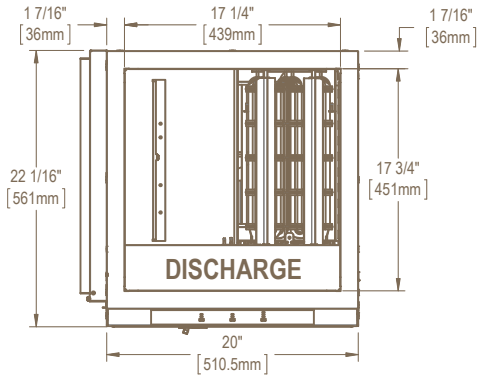
TECHNICAL DRAWINGS



FRONT



SIDE



TOP

ACCESSORIES

PRODUCT	DESCRIPTION
FSB2	adapter
SCOND	neutral terminal for third conductor

AIRFLOW SETTINGS

The SFECM furnace is equipped with an efficient ECM motor that can maintain constant airflow regardless of the static pressure variation in the ducts. It also ensures an easy setting of the airflows related to each operation mode of the furnace blower. The blower has four adjustments.

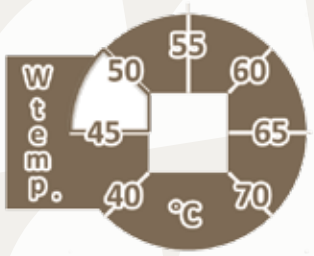
A potentiometer allowing to adjust the airflow corresponds to each of these four modes. The potentiometers are located on the furnace control card. The adjustment scales vary from one model to the other according to the capacity of the unit.

The airflows can be adjusted while the furnace is running. To adjust airflows, you must set the potentiometers to the desired values.

AIRFLOW SETTINGS EXAMPLE - SFECM1821

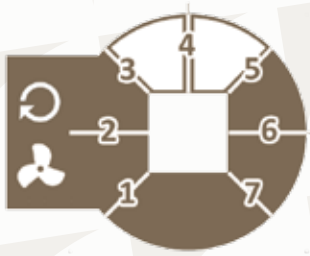
SETTING	CONTINUOUS VENTILATION		W VENTILATION		Y VENTILATION
	LOW	HIGH	W1	W2	
1	300	700	450	1150	800
2	366	766	615	1315	908
3	433	833	785	1450	1016
4	500	900	950	1450	1125
5	566	966	1115	1450	1234
6	633	1033	1285	1450	1342
7	700	1100	1450	1450	1450

Recommended

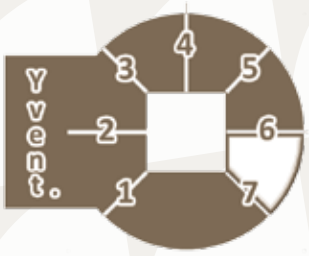


HEATING TEMPERATURE

HEATING VENTILATION

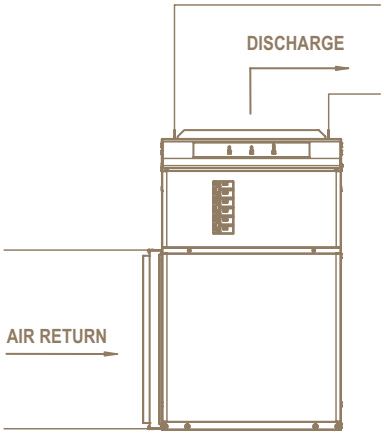


CONTINUOUS VENTILATION

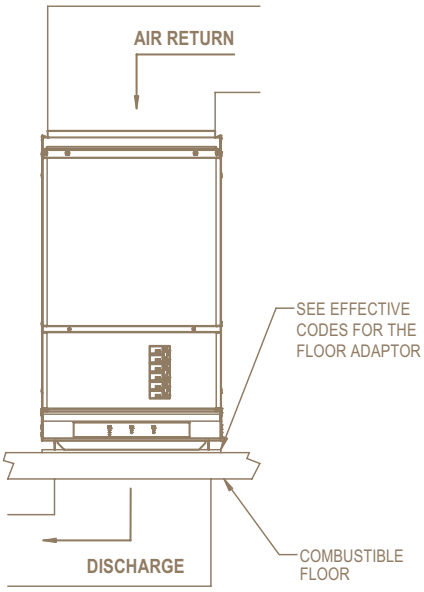


Y VENTILATION

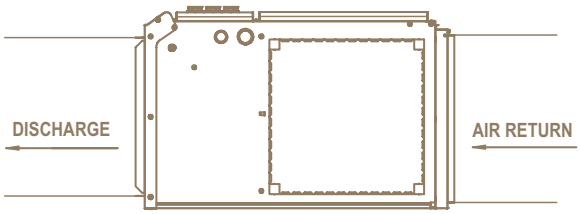
INSTALLATION



UPFLOW POSITION



DOWNFLOW POSITION



HORIZONTAL POSITION

ECM MOTOR - ELECTRONICALLY COMMUTATED MOTOR

COMFORT, EFFICIENCY, RELIABILITY AND SECURITY ARE AT THE HEART OF THE ECM.

COMFORT	Comfort level can be increased if a variable speed motor is installed. This level cannot be reached with any other method. It also allows the user to select the low speed with the desired airflow in recirculation.
EFFICIENCY	Since it combines electronic circuits and a BLDC motor, it is the most efficient motor on the HVAC market. It can reach up to twice the capacity of a PSC motor.
RELIABILITY	All its electronic circuits are protected against condensation. Thanks to its design and materials, like silicone elastomer, it is one of the most reliable motors on the market.
SECURITY	Its electronic system is protected by MOVs (metal oxide varistors) against lightning overvoltages.

THE FURNACE

FOR A DREAMY COMFORT