

# **HVAC EQUIPMENT** for Residential, Industrial & Commercial Applications





# **HVAC EQUIPMENT**



Xcelon, Sterling HVAC's newest line of ultra-high efficiency equipment brings with it a synergistic approach to traditional rooftop make-up air units.

In today's commercial HVAC industry, efficiency is everything. Xcelon is the only rooftop make-up air unit available today that fuses innovative hydronic, condensing boiler technology with advanced air distribution and energy recovery methods for unparalleled levels of efficiency up to 98%.

#### Fan ⊦

- Deflection spring isolators minimize vibration transmission and noise
- Flex connect to discharge flange reduces vibration transfer to ductwork
- Premium Efficiency, Total Enclosed, Invert Duty Rated, Direct Drive Motor
- CFM Range 4,500 10,000
- Up to 3" of external static pressure

### Hydronic Heating Plant

- Operation down to -30°F\* (Propylene Glycol Premix)
- No external water connections
- Up to 98% Thermal Efficiency
- 10:1 System Turndown
- Easy to maintain and service No removal of panels
- 800 1200 MBH
- 304L Stainless Steel Heat Exchanger
- Closed Propylene Glycol Loop

\*Option extreme weather package needed.

### Enclosure ⊢

- Sloped Roof
  - Sloped roof design prevents standing water
  - EPDM rubber roofing membrane provides all-weather protection
    - EPDM roof is only on units with Integral Cooling
- Supply Fan VFD Enclosure
  - Integral electric heater protects VFD to -30°F
  - Integral vent fan protects VFD to 115°F
  - VFD for adaptive pressure control or discharge temperature control
  - Dedicated boiler control board actively monitors discharge air temperatures
  - Modulating burners based on discharge air temperatures for maximum efficiency
- Lighting
  - LED Service Lights located throughout the unit for ease of service
- Barometric Damper and Vent Fan
- Barometric relief damper and vent fan
- Panels
  - Light weight and durable
  - 1" panels with R-value 6.3
- Optional 2" panels with R-value 11

### Moisture Sensor ⊢

• Shuts the unit down in the event of a condensate pipe leak or pressure relief valve rupture

# It's a Game Changer

Visit www.xcelonhvac.com for additional information.



### HRT Control

- Precise discharge temperature control ±1°F
- Modbus Communication Standard
- BacNet and LonWorks optional
- CFM control based on static pressure
- VFD control pre-set speeds with signal from BAS
- 4 x 20 Vacuum Fluorescent Display

### Passive Energy Recovery System

- Recover wasted electrical heat from VFD, Motor, Boiler, Pumps and Transformers
- Increases efficiency

### Filters

- 2" 30% Pleated (MERV 8) or 2" washable or 2" throwaway
- 4" MERV 13 filters available for LEED credit (EQ Credit 5)

#### **Dampers**

- 100% outside air or mixed air applications
- Uniform air mixing through opposed blade design and location
- Automatic compensation for return air duct pressure drop allows for precise economizer temperature control

### Optional Cooling Features

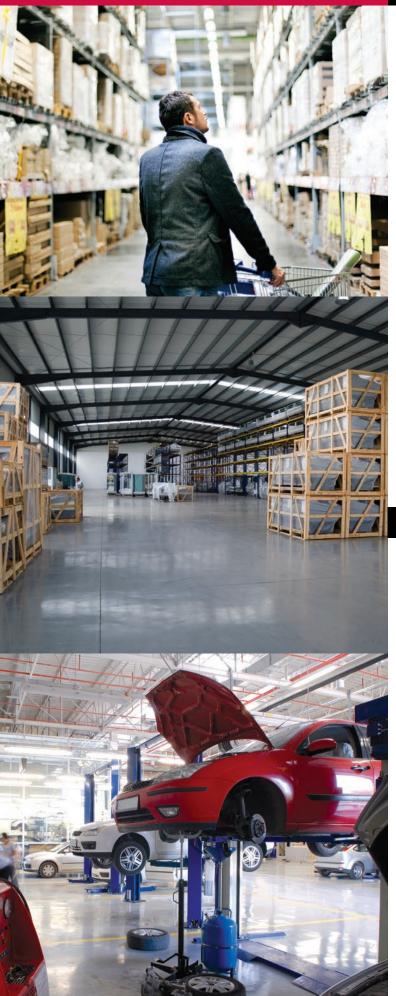
- Condensing Coil\*
  - Large surface area maximizes efficiency without increasing unit footprint
  - Condensate fans operate quietly at low RPM while optimizing refrigerant pressure and condensing
- Compressors\*
  - 4 Scroll compressors operating in stages for a 4:1 turndown
  - Evaporator pressure modulation allows for precision temperature control in between steps
- Brazed-Plate Heat Exchanger\*
  - Sub cools liquid refrigerant for improved efficiency (EER) and transfers the heat to the reheat circuit, allowing the primary heating cooling to be used and reheated in dehumidification applications
- Cooling Coil
  - Interlaced 2 circuit, 6 row DX coil
  - Available options include: a 4 or 6 row DX coil, or a 4 or 6 row chilled water coil with a condensing unit, or chiller (provided by others).
- Integral Cooling Power Panel\*
  - Door safety interlock prevents door from being opened while power is engaged
  - Condensing Fan VFD allows for low ambient operation and optimum refrigerant pressure control

\*Integral Cooling Option available 2015.

### H Boiler Condensate Piping

- Condensate trap specially designed for additional freeze protection
- Optional Condensate Neutralizer available
- Condensate safety float switch
- Optional 115/1/60 heat trace power supply (Heat Trace by others)

## **HVAC EQUIPMENT**



Sterling HVAC, the most recognized name in the game, has been producing industry leading high efficiency heating products for over 50 years. From traditional Unit Heaters to Rooftop and Indoor Make-Up Air units, Sterling HVAC has the solution to fit every residential, commercial or industrial application.

A division of Mestek, Inc. a family of over 36 specialty HVAC related manufacturers, Sterling HVAC proudly manufactures all of its products in Farmville, North Carolina USA.

Known as a true innovator Sterling HVAC designs, engineers and manufactures all of their heating products "in-house" and sets the standard for performance and quality across the industry.

Sterling HVAC provides unparalleled factory support from sales and technical resources to full application engineering support. For additional information or to speak with a Sterling HVAC representative please call toll free 800-490-2290 or visit our website at www.sterlinghvac.com.

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#### **GG Series**

GG Series gas-fired unit heaters combine the latest tubular heat exchanger technologies with a unique single-orifice burner system for superior durability, reliability and performance. GG Series propeller units are available in sizes from 30 to 120 MBH and offer industry leading operating efficiencies in a compact low-profile design perfect for applications where space is limited.

#### **Residential Garage Certified**

All GG Series units are covered by a limited 10-year heat exchanger warranty and are ETL certified for residential garage installations. Units come standard with LP gas conversion kits and for applications in dusty or damp environments, optional field installed combustion air inlet kits are available and allow easy conversion to separated combustion.

# **STANDARD FEATURES**

- 82%+ Thermal Efficiency
- Residential Certification
- Single Orifice Burner System
- Direct Spark Ignition
- 20-Gauge Tubular Heat Exchangers
- 20-Gauge Jacket Panels with Baked Enamel Finish
- Power Vented
- OSHA Fan Guard
- Terminal Strip Low Voltage Wiring
- Field Convertible To Separated Combustion with Addition of Combustion Air Inlet Kit
- LP Gas Conversion Kit Included
- Easy Access Control Panel
- 321 Stainless Steel Burner Box
- 10-Year Heat Exchanger Warranty





## **MODEL GG**



# SPECIFICATIONS

MBH Input <sup>†</sup>				75			120
MBH Output <sup>†</sup>							
Free Air Delivery CFM	370			920	1,100	1,300	1,475
Motor HP	1/20	1/20	1/12	1/12			
Flue Size Diameter							
Standard Combustion							
Separated Combustion							

†Ratings shown are for unit installations at elevations between 0 and 2,000 ft. (0 to 610m). For installations above 2,000 ft. (610m), the unit input must be derated 4% for each 1,000 ft. (305m) above 2,000 ft. refer to local codes, or refer to the latest edition of the National Fuel Gas Code, ANSI Standard Z223.1 (NFPA No. 54).

See unit installation manual for deration information.

### TF & TC Series

TF & TC Series gas-fired unit heaters combine the latest tubular heat exchanger technologies with an innovative "In-Shot" burner system for superior durability, reliability and performance in a commercial unit heater. Units are available in both propeller (TF) and blower configurations (TC) for application flexibility. Sizes range from 100 to 400 MBH with industry leading operating efficiencies and carry a 10-year heat exchanger warranty.

#### The Shield - GF Series

Sterling HVAC's Shield propeller units are the perfect gas-fired unit heater for use in corrosive environments such as greenhouses, waste water treatment plants, agricultural and food service industries.

Constructed with the same durability and reliability as the commercial grade TF Series, the Shield adds a corrosive resistant stainless steel heat exchanger and cabinet for maximum protection from the elements. Sizes range from 150 to 400 MBH and carry a limited 5-year heat exchanger warranty.

## **STANDARD FEATURES**

- 82%+ Thermal Efficiency
- 20-Gauge Tubular Heat Exchangers
- In-Shot Burner Technology
- Direct Spark Ignition System
- 20-Gauge Jacket Panels with Baked Enamel Finish
- Power Vented
- Easy Access Control Panel
- Certified for Category I and III Venting
- Terminal Strip Low Voltage Wiring
- 10-Year Heat Exchanger Warranty (TF & TC)
- Factory Fire Tested
- Optional 2-Stage Gas Valve



## **MODEL TF**



### MODEL GF (Greenhouse Speciality)



## **SPECIFICATIONS**

MBH Input <sup>†</sup>		125	150	175		250	300	350	400
MBH Output <sup>†</sup> TF/GF			124						332
MBH Output <sup>†</sup> TC	83	103	124	145	166		246	290	332
Free Air Delivery CFM TF/GF	1,600	2,200	2,400	2,850	3,200	3,450	5,000	5,600	5,800
Free Air Delivery CFM TC	1,181	1,476	1,771	2,067	2,362	2,953	3,501	4,134	4,724
Motor HP (Qty) TF/GF							1/4 (2)	1/3 (2)	1/3 (2)
Motor HP (Qty) TC	1/4	1/2	1/2					1-1/2	1-1/2
*Flue Size Diameter									

<sup>†</sup>Ratings shown are for unit installations at elevations between 0 and 2,000 ft. (0 to 610m). For installations above 2,000 ft. (610m), the unit input must be derated 4% for each 1,000 ft. (305m) above 2,000 ft. refer to local codes, or refer to the latest edition of the National Fuel Gas Code, ANSI Standard Z223.1 (NFPA No. 54).

See unit installation manual for deration information.

\*Flue collar is factory supplied with unit; to be field installed per included instructions on 150/400 MBH sizes.



#### SF & SC Series

SF & SC Series gas-fired unit heaters utilize the same durable tubular heat exchanger technologies found throughout the extensive Sterling HVAC tubular product offering. Coupled with Sterling's "In-Shot" burner technology SF & SC units are built for superior durability, reliability and performance.

The SF & SC use a separated combustion process allowing application flexibility in areas where dust, dirt, humidity and mildly corrosive conditions exist. All primary components are enclosed within the durable cabinet providing superior protection from the potentially corrosive elements.

Units are available in sizes ranging from 100 to 400 MBH in both propeller (SF) and blower (SC) configurations and offer industry leading efficiencies with a limited 10-year heat exchanger warranty. Optional 409 stainless steel heat exchangers, burners and flue collectors are available for extremely corrosive environments.

# **STANDARD FEATURES**

- Separated Combustion
- 20-Gauge Aluminized Steel Tubular Heat Exchanger
- 82%+ Thermal Efficiency
- In-Shot Burner Technology
- 115/1/60 Supply Voltage
- Power Vented
- 20-Gauge Steel Cabinetry with Baked Enamel Finish
- Direct-Spark Ignition System
- Rear Burner Access for Ease of Service
- Individually Adjustable and Removable Horizontal Louvers
- 10-Year Heat Exchanger, Flue Collector and Burner Warranty
- Combustion Air Inlet Kits for Concentric Vent Applications (Optional)





### **MODEL SF**



# **SPECIFICATIONS**

MBH Input <sup>†</sup>		125	150	175	200	250	300	350	400
MBH Output <sup>†</sup>			124						332
SF Free Air Delivery CFM	1,600	2,200	2,400	2,850	3,200	3,450	5,000	5,600	5,800
SC Free Air Delivery CFM	1,181	1,476		2,067	2,362	2,953	3,501		4,724
SF Motor HP (Qty)	1/10	1/4	1/4	1/3	1/3	1/3	1/4(2)	1/3(2)	1/3(2)
SC Motor HP									
*Flue Size Diameter									6"

<sup>†</sup>Ratings shown are for unit installations at elevations between 0 and 2,000 ft. (0 to 610m). For installations above 2,000 ft. (610m), the unit input must be derated 4% for each 1,000 ft. (305m) above 2,000 ft. refer to local codes, or refer to the latest edition of the National Fuel Gas Code, ANSI Standard Z223.1 (NFPA No. 54).

See unit installation manual for deration information.

\* Flue collar is factory supplied with unit; to be field installed per included instructions.

### **TD Series**

Designed for use with existing systems for any ducted air application, the TD Series duct furnace is the latest addition to the tubular product line. Coupled with Sterling's "In-Shot" burner technology, TD units are built for superior durability, reliability and performance. Units are available in 7 sizes (100-400 MBH) and offer industry leading efficiencies with a limited 10 year heat exchanger warranty.

The TD duct furnace is designed so that it can be easily field converted to separated combustion using the optional "Air Inlet Kit" or "Combustion Air Inlet Kit". The unit can also be easily converted from right to left hand without requiring any additional parts.

## **STANDARD FEATURES**

- In-Shot Burner Design
- 20-Gauge Steel Jacket with Baked Enamel Finish
- Double Wall Construction
- 115/1/60 Supply Voltage
- Direct Spark Ignition
- Redundant Single-Stage Gas Valve
- 115/24 Volt Controls transformer
- Power Venter
- 20-Gauge Aluminized Steel Heat Exchanger
- For Natural or Propane Gas
- 10 Year Heat Exchanger, Flue Collector and Burner Warranty
- 82% Thermal Efficiency
- Four Point Suspension
- Easy Access Control Panel
- Left Hand Control Access Field Convertible to Right Hand



## **MODEL TD**



### **SPECIFICATIONS**

MBH Input - BTU/Hr.†		150		250		350	
MBH Output - BTU/Hr.†	82	123				287	328
Thermal Efficiency	82%	82%	82%	82%	82%	82%	82%
Minimum Temperature Rise - Deg. F.							
Maximum CFM	2528	3792	5057	6321	7585	8849	10114
Pressure Drop	0.65	0.44			0.69		0.70
Maximum Temperature Rise							100
Minimum CFM					2275		
Pressure Drop	0.07	0.03	0.04	0.08	0.03	0.07	0.08

<sup>†</sup>Ratings shown are for unit installations at elevations between 0 and 2,000 ft. (0 to 610m). For installations above 2,000 ft. (610m), the input must be derated 4% for each 1,000 ft. (305m) above 2,000 ft.; refer to local codes, or refer to the latest edition of the National Fuel Gas Code, ANSI Standard 2223.1 (NFPA No. 54).

See unit installation manual for deration information.



# Hydronic Unit Heaters

### **HS** Series

Sterling HS Series horizontal unit heaters are available in both serpentine and header type units. Serpentine units offer outputs from 8,030 to 35,900 BTUs and are ideal for hot water installations with limited clearances. Header type horizontal units range from 18,000 to 360,000 BTUs and can operate with either hot water or steam. Both units are furnished with totally enclosed motors as standard equipment, explosion proof motors are optional.

#### **VS Series**

Sterling VS Series vertical unit heaters are designed for installations requiring down flow air delivery. Offered in 15 sizes ranging from 41,300 to 705,000 BTU. Low output (increased airflow) units are available for high ceiling applications, steam or hot water operation.

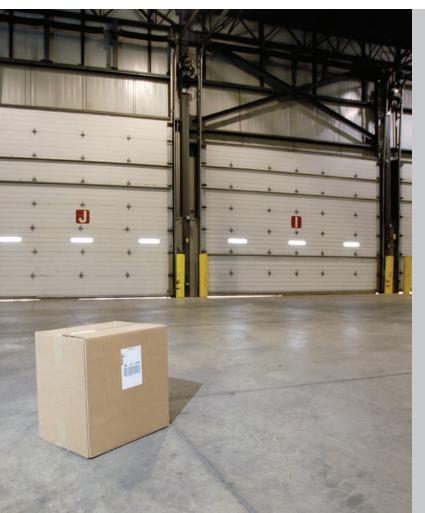
# **HS STANDARD FEATURES**

- Copper Coils w/Aluminum Fins
- 20-Gauge Cabinetry
- 115/1/60 Volt Motor
- Thermal Over Load Protection
- Adjustable Louvers

### **VS STANDARD FEATURES**

- Copper Coils w/Aluminum Fins
- Totally Enclosed Motors
- Standard Units are Field Convertible to Low Output by Removing Air Port Knockouts Located on Top of the Unit
- Thermal Over Load Protection
- 4-Point Suspension





MODEL HS Header Type



### **MODEL HS** Serpentine Type



# **MODEL VS**



# **SPECIFICATIONS**

Model	Туре	Motor H.P. Range	Output Range	CFM Range
HS (Serpentine Coil)			8,030-35,900	
HS (Header Type Coil)		16W-1/2	18,000-360,000	395-5,500
VS (Standard Unit)	Vertical			
VS (Low Output Unit)	Vertical		34,800-620,000	668-11,900

# **Indoor Duct Furnaces**

### **QVED/QVES Series**

The QVED and QVES are power vented indoor duct furnaces. QVED offers bottom burner access while the model QVES offers side access. Both models offer high efficiencies that achieve annual fuel savings of up to 25% over conventional natural vented duct furnaces. Also featured are a factory installed power venter and sealed flue collector that controls combustion and excess air during on cycles. Spark ignition is standard.

#### **QVSD Series**

The Sterling QVSD Series separated combustion indoor duct furnace is designed to be installed in mildly hostile environments where dust, dirt, and mild corrosives exist. The QVSD also performs well in atmospheres with humidity or slightly negative pressures. The burners, pilot and flue system are enclosed within the unit. The entire combustion process is literally unaffected by the atmosphere in the space where the unit is located.

### **STANDARD FEATURES**

- 80% Thermal Efficiency
- 100-400 MBH
- Aluminized Steel Heat Exchanger 20-Gauge
- Optional 409 and 321 Stainless Steel Heat Exchangers
- Single Stage Gas Valve
- Optional 2-Stage and Modulating Gas Valves
- Optional Air Flow Prove Switch
- Spark Ignition
- Natural or LP Gas Available
- Easy Burner Access with Individual Removable Burners
- Factory Test Fired
- 1-Year Warranty



## **MODEL QVED**



### **SPECIFICATIONS**

	125	150	175	200	225	250	300	350	400
		120							320
2,469	3,086	3,704	4,321	4,938	5,556	6,173	7,407	8,642	9,877
0.48	0.48	0.48		0.48	0.47	0.48		0.48	
929			1,620	1,852	2,083		2,778	3,241	
0.12	0.13	0.15	0.14	0.14	0.14	0.14	0.13	0.13	0.14
	4,625		6,475		8,326	9,251		12,951	14,801
2.03	1.92	1 0 1	1.07	1.0	1.93	1.96		2.02	0.05
2.05		1.01	1.86	1.9	1.75	1.90		2.02	2.05
90		90	1.86 90	1.9 90	90	90		2.02 90	2.05 90
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<sup>†</sup>Published ratings are shown for elevations up to 2,000 ft. (610m) above sea level. For higher elevations derate 4% for each 1,000 ft. (305m) above sea level.

In Canada, derate 10% for altitudes 2,000 to 4,500 ft. (610 to 1372m).



# **Oil Fired Unit Heaters**

#### **QVOF Series**

Sterling's QVOF Series oil-fired unit heater is designed to operate on number 1 & 2 fuel oils. Available in seven sizes ranging from 70 to 560 MBH (.50 to 4.00 GPH) all units are factory assembled and ready to install.

## **STANDARD FEATURES**

- Heavy Duty 18-Gauge Heat Exchanger
- Energy Efficient Flame Retention Beckett<sup>®</sup> Burner
- Adjustable Discharge Air Louvers
- Fan/Limit Control
- Four Point Suspension
- CAD Cell Burner Safeguard Control
- 115/1/60

# **MODEL QVOF**



# **SPECIFICATIONS**

MBH Input			126	231	312	375	560
MBH Output							
Firing Rate #2 Fuel Oil (GPH)	0.5	0.75	0.9	1.65	2.25	2.75	
Free Air Delivery CFM	1,050		2,000	3,200	3,400	5,000	6,000
Motor HP (Qty)	1/4	1/4	1/4	1/4	1/2	1/2	1/3 (2)
Flue Size Diameter							

# **Cabinet Blowers**

#### Cabinet Blowers (Models CAB 1 - 4)

Sterling cabinet blowers have been designed for high static pressure applications in conjunction with an indoor duct furnace. Cabinet blowers have been specially matched for use with a single Sterling indoor duct furnace to provide maximum efficiencies.

### **STANDARD FEATURES**

- Four Sizes with Capacities Ranging from 1,250 to 8,000 CFM
- Removable Side Inspection Panels
- Floor Mounted Motors (1-3 HP, 56Hz Frames or Larger)
- Duct Furnace Transition Piece when Ordered with Duct Furnace
- Available with 1 in. Washable or Throw Away Filters

# **MODEL CAB**



# **SPECIFICATIONS**

Model	CAB1	CAB2	CAB3	CAB4
Minimum CFM	1,250	2,000		5,000
Maximum CFM	2,000	3,000	5,000	8,000

### **MODEL RSD**





# **SPECIFICATIONS**

Model Number	Gas Type	MBH Input
RSD30		
RSD33	Propane	33
RSD35		
RSD40	Natural	
RSD60		
RSD66	Propane	66
RSD70		
RSD80	Natural	
RSD100		
RSD100	Propane	
RSD120		120
RSD132	Propane	132
RSD140		
RSD160	Natural	160

# **MODEL RSG**



# **SPECIFICATIONS**

Model Number	MBH Input
RSG025	
RSG035	35
RSG045	

# **Infrared Heaters**

#### **RSD Series – High Intensity**

Sterling RSD Series high intensity infrared heaters are available with inputs of 35 to 160 MBH. Units have a special honeycomb tile design for increased radiant output.

## **STANDARD FEATURES**

- Direct Spark Ignition 100% Shut Off
- Heavy Gauge Aluminized Steel Burner Housing
- Highly Efficient Aluminum Reflectors
- Natural or LP Gas
- 24 Control
- 4-Point Suspension
- 5-Year Burner Warranty

#### **RSG Series – Residential Low Intensity**

Sterling RSG Series low intensity infrared heaters are residentially certified and available with inputs of 25 to 40 MBH. All units are field assembled and utilize Sterling's integral tube/reflector hanging system. The burner is of the box type design and is totally enclosed to protect against dust and moisture.

# **STANDARD FEATURES**

#### **Burner Box**

- Totally Enclosed Design
- Direct Spark Ignition 100% Shut Off
- Natural or LP Gas
- Factory Test Fired
- 10-Year Burner Warranty

#### **Radiant Tube**

- Heat Treated Aluminized Steel Tube
- Compact Tube Size with Overall Unit Length of 9'2" for Ease of Installation.
- U-Tube Design for Even Heat Distribution
- 5-Year Tube Warranty

#### RSS/RSU Series - Commercial Low Intensity

Sterling RSS/RSU Series low intensity infrared heaters are available with inputs of 40 to 200 MBH and system lengths of 10 to 70 feet. All units are field assembled and utilize Sterling's integral tube/reflector hanging system. The burner is of the box type design and is totally enclosed to protect against dust and moisture.

### **STANDARD FEATURES**

#### **Burner Box**

- Totally Enclosed Design
- Direct Spark Ignition 100% Shut Off
- Heavy Duty Cast Iron Burner
- Natural or LP Gas
- LED Indicator Light for Ease of Trouble Shooting
- Factory Test Fired
- 10-Year Burner Warranty

#### **Radiant Tube**

- Heat Treated Aluminized Steel or Alumitherm Steel on First 10 Feet of Unit
- Hot Rolled Steel on Remainder of Unit
- Optional Complete Heat Treated Aluminized Steel
- Integral Tube Integrity Safety System
- 5-Year Tube Warranty

#### **RSM Series – Millivolt Ceramic Heaters**

### **STANDARD FEATURES**

- Capacities from 26,000 to 104,000 Btu/hr
- Millivolt standing pilot operation with 100% gas shut-off safety control
- No electricity required to operate
- Requires 750 mV thermostat (part #42489010) for proper operation
- Aluminized steel construction
- Aluminum reflectors. Optional reflector extensions available
- Suitable for horizontal or angle mount up to 30°
- Indirect vented operation. Requires mechanical or gravity ventilation

# **MODEL RSS**





# **SPECIFICATIONS**

	System Length			
Model Number	MBH Input	Min.	Max.	Flue Size
RSS/U040				
RSS/U050				4"
RSS/U075				
RSS/U100				4"
RSS/U125	125			
RSS/U150	150			4"
RSS/U175				
RSS/U200				

# **MODEL RSU**



# **MODEL RSM**



# **SPECIFICATIONS**

Model Number	Gas Type	Input Btu/hr
RSM30-N1C		26,000
RSM30-L1C	Propane	26,000
RSM60-N1C		52,000
RSM60-L1C	Propane	52,000
RSM100-N1C		104,000
RSM100-L1C	Propane	104,000



### **MODEL RT** Duct Furnace





Intertek

**MODEL PV** 

**Duct Furnace** 

# **MODEL EV**



## **MODEL AH**



# **MODEL ERMS**



# **Outdoor Duct Furnaces**

### **RT and PV Series**

Sterling outdoor duct furnaces utilize the same quality components as our indoor line of equipment. Installed in a weatherproof enclosure, these furnaces can be used with standard air handling systems or included in a Sterling packaged unit.

Inputs range from 100 to 1,200 MBH and are ETL approved for a  $20^{\circ}$  to  $90^{\circ}$ F temperature rise. Available as either natural (RT) or power vented (PV) and for use with natural or LP gas.

## **Evaporative Coolers** EV Series

Sterling EV Series evaporative coolers are available in four sizes ranging from 800 to 8,500 CFM. Units utilize 8 in. CELdek<sup>®</sup> media as standard, optional 12 in. CELdek<sup>®</sup> and 8 in. or 12 in. GLASdek<sup>®</sup> media are available.

Sterling evaporative coolers are available as stand alone units or factory assembled arrangements including a Sterling air handler.

# **Air Handlers**

#### **AH Series**

Sterling AH Series air handlers are divided into two classifications "Standard" and "High CFM". Standard air handlers have a CFM range of 1,500 to 8,000 CFM and are available factory assembled with evaporative coolers and downturn plenums. High CFM air handlers have a CFM range of 3,000 to 15,000 CFM and are available factory assembled with coil cabinets (up to 20 tons) and downturn plenums.

### **ERMS Series**

The Sterling ERMS unit is an outdoor rooftop mounted, electrically controlled, outdoor air pre-conditioner utilizing an Air Xchange Energy Recovery Wheel to reduce the heating and cooling load placed on the HVAC unit by untreated outside air. Outside air will be drawn through the ERMS cassette by the ERMS supply blower and shall be discharged directly into the rooftop unit return air. Units are available in sizes 800 to 14,000 CFM.

# **Indirect Fired Make-Up Air Systems**

#### **RT and PV Series**

Sterling RT and PV Series indirect fired make-up air systems are available in multiple configurations and vary depending on the specific application. Standard and High CFM Blower cabinets are designed to be mounted on a common heavy duty skid rail with up to three outdoor gas-fired duct furnaces. Other cabinets include downturn plenums, coil cabinets with factory installed coils and evaporative coolers.

Multiple factory installed gas and air controls are available including DDC control packages, electronic stage controllers, building pressurization controllers, and a variety of mixed air controllers.

The packaged unit is certified by ETL, an exclusive for Sterling.

#### **ME Series**

Sterling ME Series indirect fired make-up air systems are similar to the outdoor model "PV" with the exception that the model QVES duct furnaces are utilized. Heating

# **STANDARD FEATURES**

- ETL Certified Outdoor Packaged Units
- Outdoor and Indoor Models
- Heating Capacities from 100 to 1,200 MBH
- CFM Ranges from 800–14,000 CFM
- Dedicated Control Cabinet Isolated from the Air Stream
- Natural (RT) or Power Vented (PV, ME, MS) Duct Furnaces
- Motors Sizes up to 15HP
- Draw-Thru Coil Cabinet with Stainless Steel Drip Pan
- Factory Installed Heating And Cooling Coils
- Evaporative Coolers with Standard 8" or Optional 12" Media
- 1" Washable Filters (Standard)
- 18-Gauge Cabinetry
- 20-Gauge Aluminized Steel Heat Exchangers
- Over 40 Standard Gas and Air Control Packages
- Heavy Duty Centrifugal Blowers
- Factory Assembled and Mounted Air Hood
- Factory Fire Tested
- Hinged Access Doors

capacities range from 100 to 1,200 MBH with airflows up to 9,800 CFM.

Multiple factory installed gas and air controls are available including DDC control packages, electronic stage controllers, enthalpy controlled economizers, building pressurization controllers and a variety of other mixed air control packages.

All indoor make-up air units are factory assembled on a 4 in. heavy duty common skid rail allowing the unit to be suspended for overhead installations.

#### **MS Series**

Sterling MS Series separated combustion indoor make-up air systems are similar to the ME unit except a separated combustion type duct furnace is utilized. Separated combustion units are designed to be installed in dusty, dirty and mildly corrosive environments or where local codes require outside air to be used for combustion. Heating capacities range from 100 to 1,200 MBH with airflows from 900 to 14,800 CFM.

# **TYPICAL OUTDOOR PV UNIT**





# **TYPICAL INDOOR MS UNIT**





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