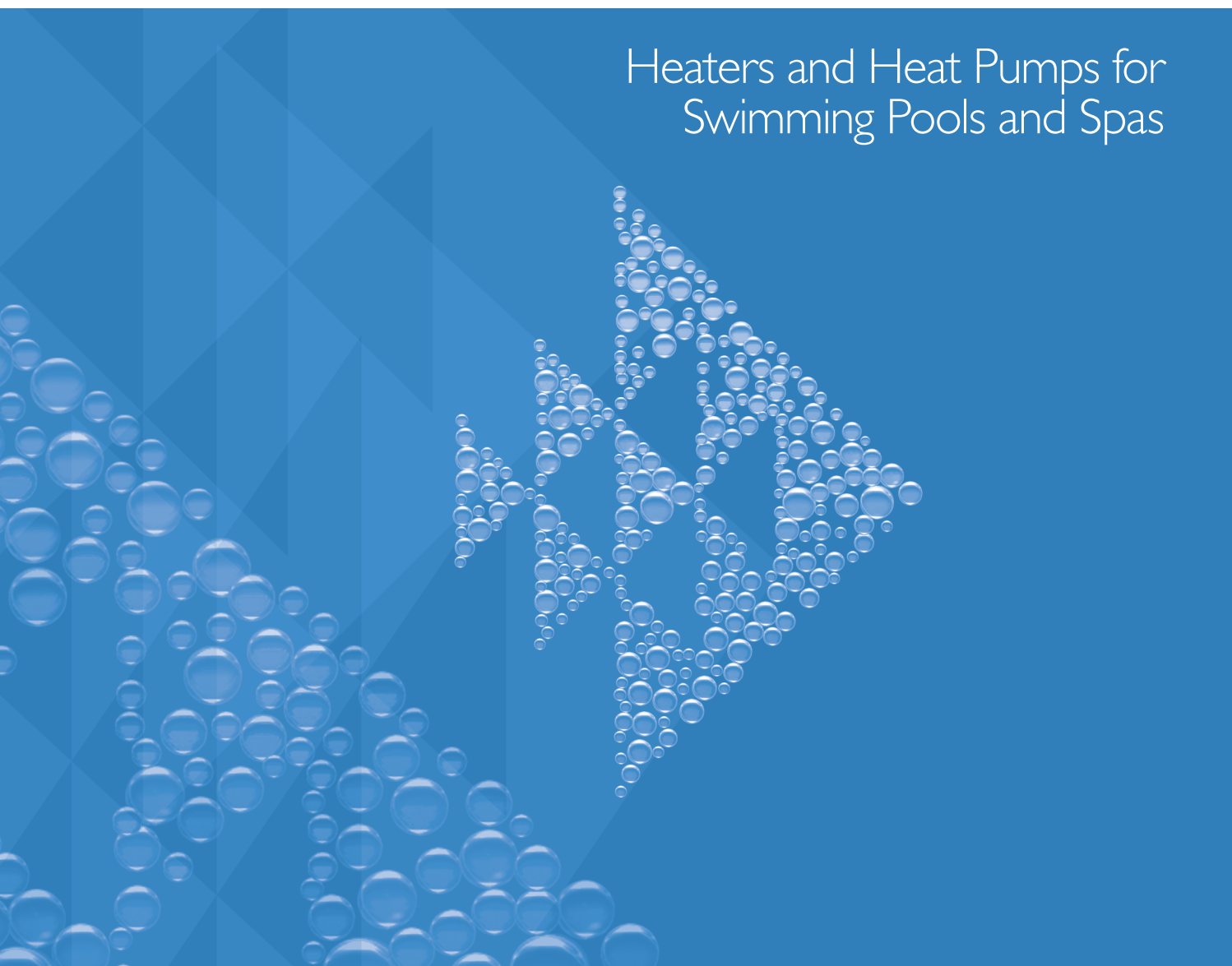




# Heaters & Heat Pumps

Heaters and Heat Pumps for  
Swimming Pools and Spas



# MasterTemp® Heater

## High Performance Eco-Friendly Heaters



### Featured Highlights

- Heats up fast so no long waits before enjoying your pool or spa
- Best-in-class energy efficiency
- Manual gas shut-off when service is required
- Eco-friendly MasterTemp® is certified for low NOx emission and outperforms industry standards
- Rotating digital display allows for easy viewing
- Tough, rustproof exterior handles the heat and weathers the elements

MasterTemp High Performance Heater

New MasterTemp® heaters offer all the efficiency, convenience and reliability features you want in a pool heater, plus a lot more. As easy to use as your home heating system, plus, user-friendly indicator lights make system operation and monitoring a snap. The compact design and super-quiet operation won't intrude on your poolside leisure time.

### Ordering Information

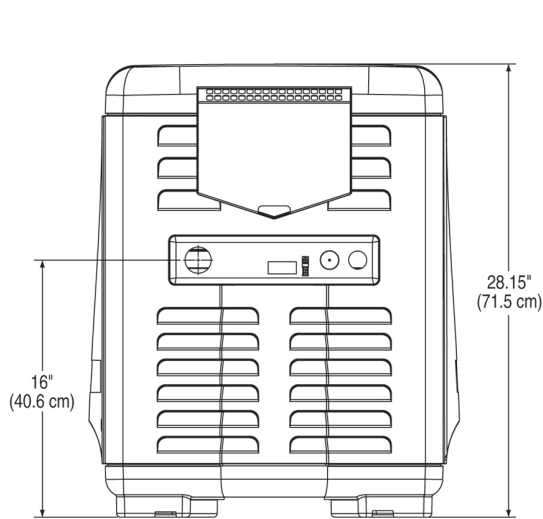
Product	Gas Type	BTU (000's)	Carton Qty.	Carton Wt.
<b>MASTERTEMP HEATERS</b>				
460792	Natural	175	1	128
460793	Propane	175	1	128
460730	Natural	200	1	128
460731	Propane	200	1	128
460732	Natural	250	1	133
460733	Propane	250	1	133
460771	Natural	250 ASME	1	120
460772	Propane	250 ASME	1	120
460806	Natural	250HD	1	136
460734	Natural	300	1	136
460735	Propane	300	1	136
460736	Natural	400	1	136
460737	Propane	400	1	136
460805	Natural	400HD	1	136
460775	Natural	400ASME	1	149
460776	Propane	400ASME	1	149

Note: The MasterTemp® is certified for low NOx emissions.

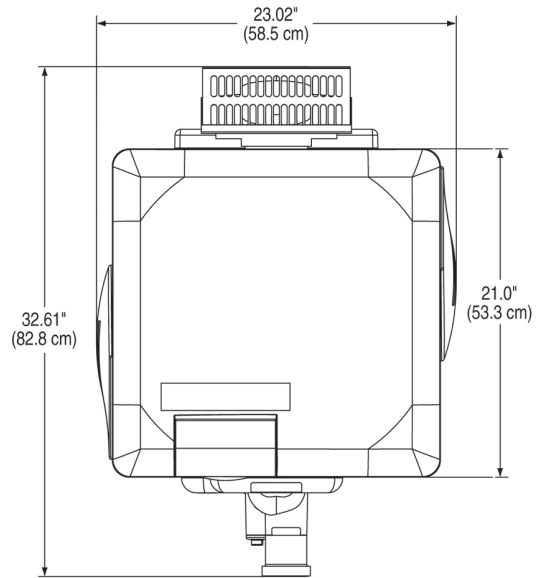
# MasterTemp® Heater

## High Performance Eco-Friendly Heaters

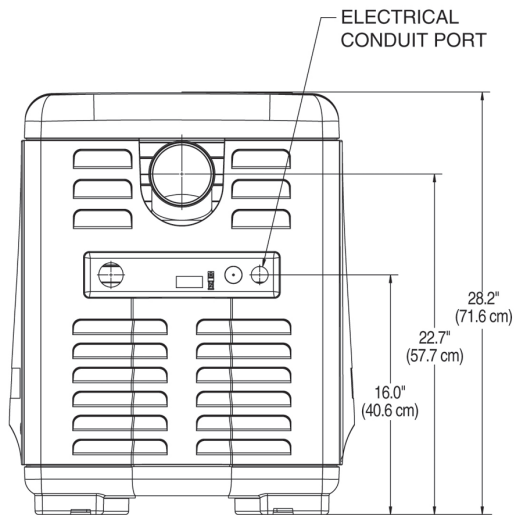
### Dimensions and Performance



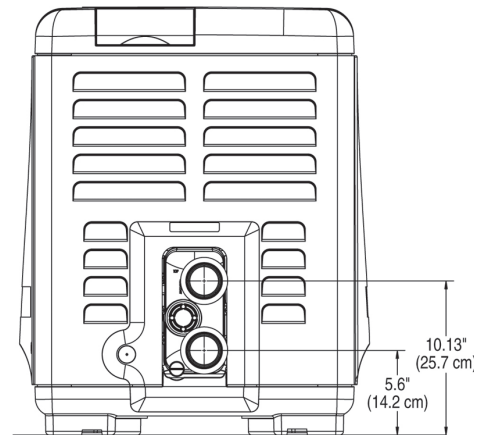
**FRONT**



**TOP**



**EXHAUST SIDE**



**PLUMBING SIDE**

See pages 374–378 for replacement parts.

# Max-E-Therm® Pool And Spa Heater



Max-E-Therm Pool and Spa Heater  
Protected by U.S. Patent Numbers 5,809,942  
and D397,191

## Featured Highlights

- **Lightweight** – Lightest heater in its class
- **Compact Design** – Ideal for retro-fit installations
- **Easy to Switch** – Change gas sources with installation of separate orifice
- **Environmentally Friendly** – All units are low NOx
- **Rustproof Housing** – Sleek, matte black enclosure is made of Dura-Glas™ – an exclusive Sta-Rite material that handles the heat and weathers the elements
- **Lower Operating Costs** – 84% efficiency rating – rated 1st in its class for highest energy efficiency
- **Custom or Retrofit** – Direct-connects to Sta-Rite System:3® Mod Media™ filter or easily fits other systems

For indoor or outdoor installations on pools and spas. Features include an LED temperature readout with dual thermostat controls, temperature safety lockout, and 6-position control panel. PMG burner technology requires no outdoor draft hood. Proven Dura-Glas™ rust-proof construction with plastic manifold and PVC union connections. Heavy-duty unit with cupro-nickel exchanger stands up to the harshest of applications, like low pH, high flow or heavy use.

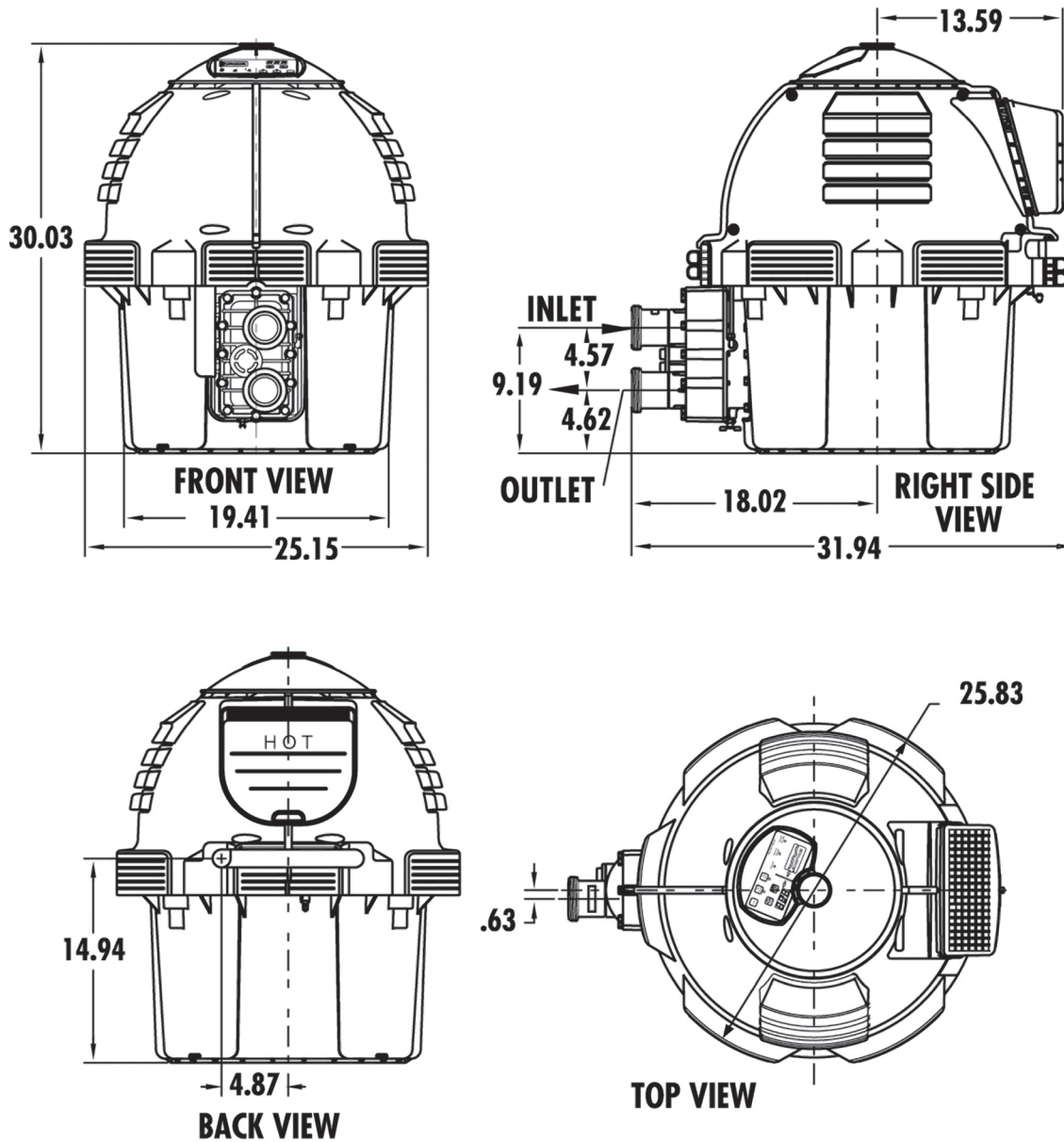
## Ordering Information

Product	Description	BTU (000's)	Carton Wt.
<b>MAX-E-THERM POOL/SPA HEATER</b>			
SR200NA	Max-E-Therm 200 BTU Natural Gas Heater	200	131
SR200LP	Max-E-Therm 200 BTU Propane Gas Heater	200	131
SR200HD	Max-E-Therm 200 BTU Heavy Duty Heater	200	131
460767	Max-E-Therm 250 BTU ASME Natural Gas Heater	250	151
460768	Max-E-Therm 250 BTU ASME Propane Gas Heater	250	151
SR333NA	Max-E-Therm 333 BTU Natural Gas Heater	333	138
SR333LP	Max-E-Therm 333 BTU Propane Gas Heater	333	138
SR333HD	Max-E-Therm 333 BTU Heavy Duty Heater	333	138
SR400NA	Max-E-Therm 400 BTU Natural Gas Heater	400	138
SR400LP	Max-E-Therm 400 BTU Propane Gas Heater	400	138
SR400HD	Max-E-Therm 400 BTU Heavy Duty Heater	400	138
460763	Max-E-Therm 400 BTU ASME NA	400	149
460764	Max-E-Therm 400 BTU ASME LP	400	149

Note: The Max-E-Therm® is certified for low NOx emissions.

# Max-E-Therm® Pool And Spa Heater

## Dimensions and Performance



See pages 404–407 for replacement parts.

# MiniMax<sup>®</sup> CH

## High Performance Millivolt Ignition Heaters



MiniMax CH

### Featured Highlights

- Composite Header
- Precision Dual Electronic Thermostat
- Easy-to-Install CPVC bulkhead connections and reversible headers allowing direct PVC connections
- Standard balanced flue stackless top for outdoor installation
- Designed for high efficiency
- For indoor installation, see Indoor Vent Kits, page 100
- Low profile design with rounded corners
- The MiniMax CH Heater uses a flow valve that incorporates a molded plastic design and improves performance

From the inside out, the MiniMax<sup>®</sup> CH heater is designed for easy and reliable use. It features high efficiency, faster heat-up times and lower operating costs. Plus, its space saving, low profile design blends easily into the backyard decor.

### Ordering Information

Product	Altitude Range (Ft.)	Gas Type	Thermostat Type	BTU (000's)	Carton Qty.	Carton Wt.
<b>MINIMAX CH NATURAL GAS</b>						
460618	0-2999	Natural	Millivolt	150	1	152
460624	3000-5999	Natural	Millivolt	150	1	152
460471	6000-9999	Natural	Millivolt	150	1	152
460619	0-2999	Natural	Millivolt	200	1	161
460625	3000-5999	Natural	Millivolt	200	1	161
460472	6000-9999	Natural	Millivolt	200	1	161
460620	0-2999	Natural	Millivolt	250	1	177
460626	3000-5999	Natural	Millivolt	250	1	177
460473	6000-9999	Natural	Millivolt	250	1	177
460621	0-2999	Natural	Millivolt	300	1	185
460627	3000-5999	Natural	Millivolt	300	1	185
460474	6000-9999	Natural	Millivolt	300	1	185
460622	0-2999	Natural	Millivolt	350	1	196
460628	3000-5999	Natural	Millivolt	350	1	196
460475	6000-9999	Natural	Millivolt	350	1	196
460623	0-2999	Natural	Millivolt	400	1	215
460629	3000-5999	Natural	Millivolt	400	1	215
460476	6000-9999	Natural	Millivolt	400	1	215

Note: For altitudes above 10,000 feet, contact Customer Service.

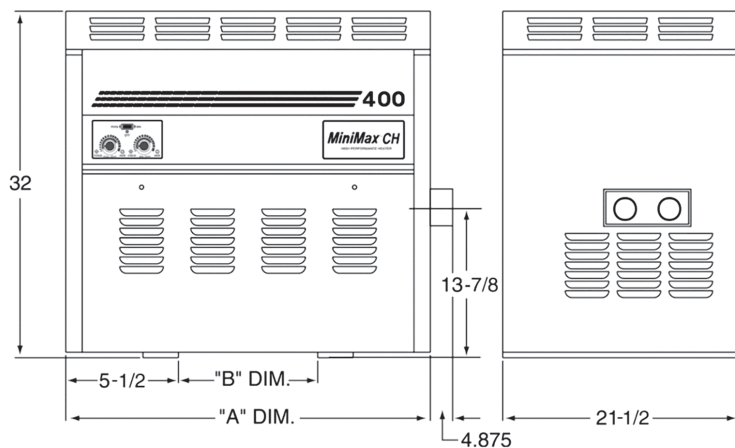
# MiniMax<sup>®</sup> CH (Cont'd)

## High Performance Millivolt Ignition Heaters

Product	Altitude Range (Ft.)	Gas Type	Thermostat Type	BTU (000's)	Carton Qty.	Carton Wt.
<b>MINIMAX CH PROPANE GAS</b>						
460630	0–2999	LP	Millivolt	150	1	152
460636	3000–5999	LP	Millivolt	150	1	152
460477	6000–9999	LP	Millivolt	150	1	152
460631	0–2999	LP	Millivolt	200	1	161
460637	3000–5999	LP	Millivolt	200	1	161
460478	6000–9999	LP	Millivolt	200	1	161
460632	0–2999	LP	Millivolt	250	1	177
460638	3000–5999	LP	Millivolt	250	1	177
460479	6000–9999	LP	Millivolt	250	1	177
460633	0–2999	LP	Millivolt	300	1	185
460639	3000–5999	LP	Millivolt	300	1	185
460480	6000–9999	LP	Millivolt	300	1	185
460634	0–2999	LP	Millivolt	350	1	196
460640	3000–5999	LP	Millivolt	350	1	196
460481	6000–9999	LP	Millivolt	350	1	196
460635	0–2999	LP	Millivolt	400	1	215
460641	3000–5999	LP	Millivolt	400	1	215
460482	6000–9999	LP	Millivolt	400	1	215

Note: For altitudes above 10,000 feet, contact Customer Service.

### Dimensions and Performance



**Dimension Table**

Model	A Dim.	B Dim.
150	17-7/8"	6-1/2"
200	20-7/8"	9-1/2"
250	23-7/8"	12-1/2"
300	26-7/8"	15-1/2"
350	29-7/8"	18-1/2"
400	33-3/8"	23-3/8"

See “Engineering Data” pages 551–560 for information on selecting the proper size heater.

See pages 379–383 for replacement parts.

# MiniMax<sup>®</sup> 75

## High Performance Pool and Spa Heater



MiniMax 75

### Featured Highlights

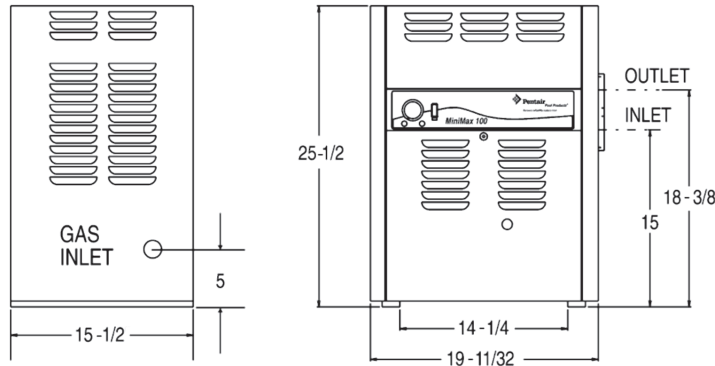
- Millivolt standing pilot version in natural gas
- Quiet and dependable operation from packaged burner system
- Bronze Headers
- Quick Flange allows 1-1/2 FIP connect
- The controls have been designed for very easy access and are user friendly
- Low profile and lightweight. Perfect for one-man installation
- Installs to 3,500 ft. altitude

The MiniMax<sup>®</sup> 75 is a compact, lightweight and efficient gas fired high performance aboveground pool and spa heater. It can be connected to schedule 40 CPVC or ABS pipe and has a built-in top. Reliable direct-spark ignition (DSI) system is available in a gas version.

### Ordering Information

Product	Altitude Range (Ft.)	Gas Type	Thermostat Type	BTU (000's)	Carton Qty.	Carton Wt.
<b>MINIMAX 75 NATURAL GAS</b>						
460399	0-3500	Natural	Electronic	75	1	95

### Dimensions and Performance



See "Engineering Data" pages 621-630 for information on selecting the proper size heater and for heater gas supply and pipe sizing information.



# MiniMax<sup>®</sup> 100

## High Performance Pool and Spa Heater



### Featured Highlights

- Millivolt standing pilot versions in propane or natural gas
- Quiet and dependable operation from packaged burner system
- Bronze Headers
- Quick Flange allow 1-1/2 FIP connect
- The controls have been designed for very easy access and are user friendly
- Low profile and lightweight. Perfect for one-man installation
- Installs to 3,500 ft. altitude



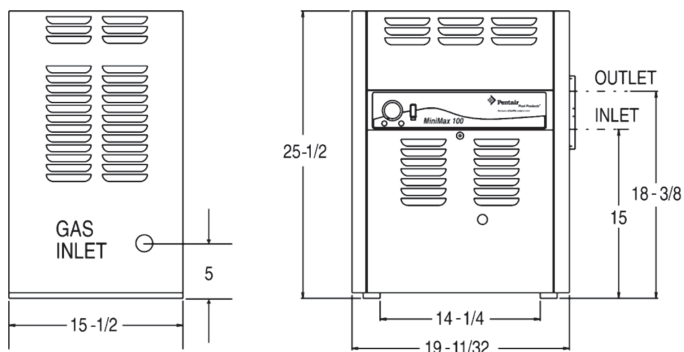
MiniMax 100

The MiniMax<sup>®</sup> 100 is a compact, lightweight and efficient gas fired high performance aboveground pool and spa heater. It can be connected to schedule 40 CPVC or ABS pipe and has a built-in top. Reliable direct-spark ignition (DSI) system is available in propane or natural gas versions.

### Ordering Information

Product	Altitude Range (Ft.)	Gas Type	Thermostat Type	BTU (000's)	Carton Qty.	Carton Wt.
<b>MINIMAX 100 NATURAL GAS</b>						
460347	0–3500	Natural	Electronic	100	1	90
460352	0–3500	Natural	Millivolt	100	1	90
<b>MINIMAX 100 PROPANE GAS</b>						
460348	0–3500	LP	Electronic	100	1	90
460353	0–3500	LP	Millivolt	100	1	90
<b>MINIMAX 100 NATURAL GAS (with cord)</b>						
460387	0–3500	Natural	Electronic	100	1	90
<b>MINIMAX 100 PROPANE GAS (with cord)</b>						
460388	0–3500	LP	Electronic	100	1	90

### Dimensions and Performance



See “Engineering Data” pages 551–560, for information on selecting the proper size heater and for heater gas supply and pipe sizing information.

See pages 408–409 for replacement parts.

# MiniMax<sup>®</sup> Vent Kits and Accessories

## For MiniMax<sup>®</sup> Heaters

### Ordering Information

Product	Used On	For Heater Size
<b>OUTDOOR VENT KITS</b>		
471357	SPA	75/100
460237	CH	150
460222	CH	200
460223	CH	250
460224	CH	300
460225	CH	350
460226	CH	400
460424	All NT Models	All Sizes
<b>INDOOR VENT KITS</b>		
471187	SPA	75/100
460227	CH	150
460228	CH	200
460230	CH	250
460231	CH	300
460233	CH	350
460234	CH	400
460506	All NT Models	All BTU sizes 4-inch dia. Vent
460507	All NT Models	All BTU sizes 5-inch dia. Vent
<b>ACCESSORIES</b>		
472446	MaxCheck Plus *	

\* The MaxCheck Plus is a troubleshooting tool for all NT heaters. When connected to the DDTC board, the MaxCheck can read the last 10 error codes stored. It also allows you to view the current version of software, and reprogram the digital board in the event of a software upgrade.

### Dimensions and Performance

Product	Heater Model	Dim. A	Dim. B	Dim. C	Dim. D	Dim. E	Dim. F
<b>THROUGH WALL VENT KITS</b>							
471532	4-inch Dia NT	4	6	8.5	6.312	12.625	10.625
471543	5-inch Dia NT	5	8	8.5	8	12.625	10.625



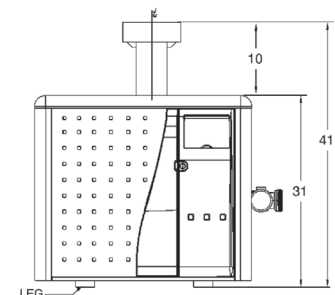
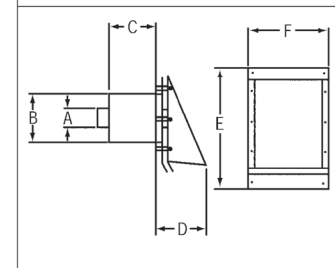
Outdoor Vent Kit for MiniMax Heater



Max Check Plus \*



Indoor Vent Adaptors



Contact Factory for proper installation on older MiniMax Models.

See "Engineering Data" pages 551–560, for information on selecting the proper size heater and for heater gas supply and pipe sizing information.

# Max-E-Therm® and MasterTemp® Accessories

## Ordering Information

Product	Description	Approx. Ship. Weight (Lbs.)
<b>VERTICAL VENTING – NEGATIVE PRESSURE</b>		
77707-0076	4 in. x 6 in. Metal Flue Collar	3
77707-0077	4 in. x 8 in. Metal Flue Collar	3
<b>HORIZONTAL OR VERTICAL VENTING – POSITIVE PRESSURE <sup>4</sup></b>		
77707-0086	Appliance Adapter, Stainless Steel – Manufactured by Heat Fab Venting	3
77707-0087	Appliance Adapter, Stainless Steel – Manufactured by Z-Flex U.S. Venting	3
<b>CONVERSION KITS – NATURAL GAS TO LPG</b>		
77707-1461	Conversion Kit NG-LPG 200K for Pool and Spa Heater	1
460741	NG to Propane Conversion Kit – Model 250	
460755	NG to Propane Conversion Kit – Model 300	
77707-1451	Conversion Kit NG-LPG 333K for Pool and Spa Heater	1
77707-1441	Conversion Kit NG-LPG 400K for Pool and Spa Heater	1
<b>CONVERSION KITS – LPG to NATURAL GAS</b>		
77707-1431	Conversion Kit LPG-NG for 200K Pool and Spa Heater	1
460742	Propane to NG Conversion Kit – Model 250	
460756	Propane to NG Conversion Kit – Model 300	
77707-1421	Conversion Kit LPG-NG for 333K Pool and Spa Heater	1
77707-1411	Conversion Kit LPG-NG for 400K Pool and Spa Heater	1
<b>HEATER ACCESSORIES</b>		
42001-0085S	Heater Bolt Down Bracket Kit (Max-E-Therm)	1
460738	Heater Bolt Down Bracket Kit (MasterTemp)	
PKG 188	Union Package	1
UII-197P	2 in. Adapter (for service loop)	1
460738	Heater Bolt Down Bracket Kit (MasterTemp)	

See “Engineering Data” pages 551–560, for information on selecting the proper size heater and for gas supply and pipe sizing information.

# Commercial PowerMax®

## High Performance Electronic Ignition Heaters



Commercial PowerMax

### Featured Highlights

- Reliable operation in natural or propane models
- Fan-assisted and filtered combustion air
- Dual ignition systems for models greater than 750,000 BTU
- Built-in mixing system reduces condensation possibilities
- Fits through standard doorways
- 200/208 and 575 volt models available
- Gas Supply right or left side
- CSA Certified
- CSD-I and other options available. Contact factory for part numbers.

When performance is critical, the new PowerMax® heater provides peak efficiency and easy maintenance in both indoor and outdoor applications. Seven sizes delivering up to 85% efficiency ratings and meeting all Low NOx requirements. PowerMax is designed for operation to 10,000 foot elevation.

### Ordering Information

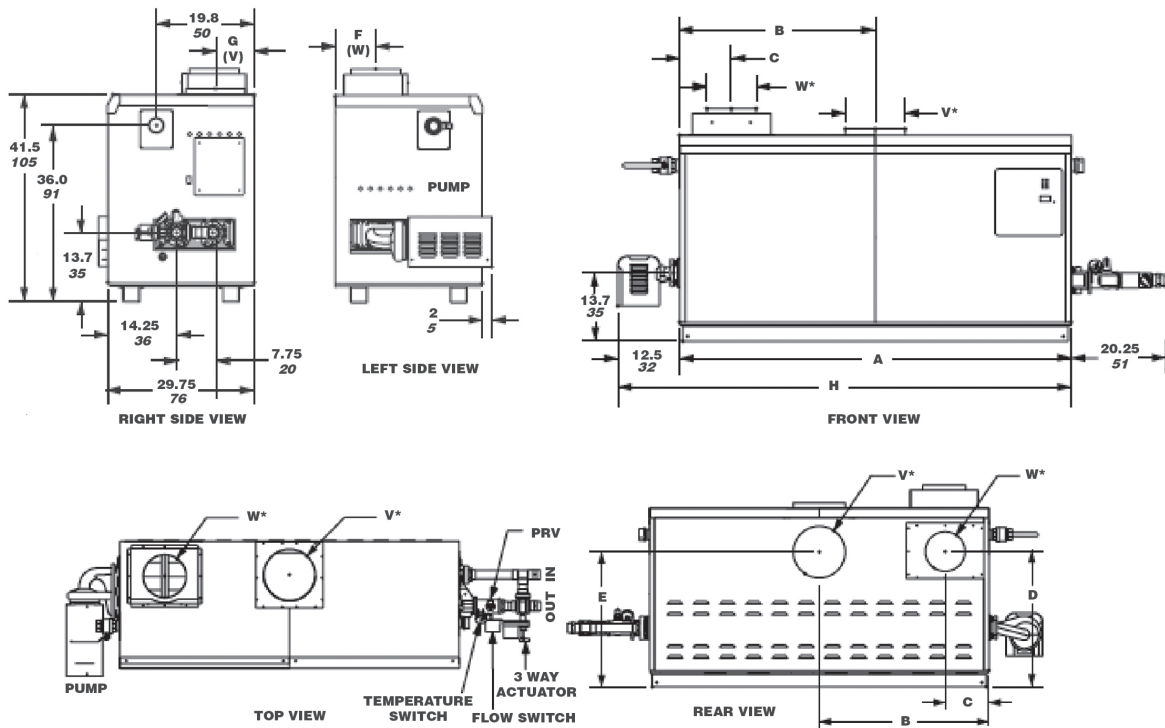
Product	BTU's	Installation	Gas Type	Pump System	Heat Exchanger	Carton Wt. (Lbs.)
<b>COMMERCIAL POWERMAX NATURAL GAS MODELS</b>						
PM0500NACC2BXN	500	Indoor/Outdoor	Natural	Pump Mounted	Copper	495
PM0750NACC2BXN	750	Indoor/Outdoor	Natural	Pump Mounted	Copper	575
PM1000NACC2BXN	100	Indoor/Outdoor	Natural	Pump Mounted	Copper	685
PM1250NACC2BXN	1250	Indoor/Outdoor	Natural	Pump Mounted	Copper	730
PM1500NACC2BXN	1500	Indoor/Outdoor	Natural	Pump Mounted	Copper	830
PM1750NACC2BXN	1750	Indoor/Outdoor	Natural	Pump Mounted	Copper	880
PM2000NACC2BXN	2000	Indoor/Outdoor	Natural	Pump Mounted	Copper	1025
PM0500NACC2PXN	500	Indoor/Outdoor	Natural	Pump Mounted	CuproNickel	495
PM0750NACC2PXN	750	Indoor/Outdoor	Natural	Pump Mounted	CuproNickel	575
PM1000NACC2PXN	100	Indoor/Outdoor	Natural	Pump Mounted	CuproNickel	685
PM1250NACC2PXN	1250	Indoor/Outdoor	Natural	Pump Mounted	CuproNickel	730
PM1500NACC2PXN	1500	Indoor/Outdoor	Natural	Pump Mounted	CuproNickel	830
PM1750NACC2PXN	1750	Indoor/Outdoor	Natural	Pump Mounted	CuproNickel	880
PM2000NACC2PXN	2000	Indoor/Outdoor	Natural	Pump Mounted	CuproNickel	1025
<b>COMMERCIAL POWERMAX PROPANE GAS MODELS</b>						
PM0500PACC2BXN	500	Indoor/Outdoor	Propane	Pump Mounted	Copper	495
PM0750PACC2BXN	750	Indoor/Outdoor	Propane	Pump Mounted	Copper	575
PM1000PACC2BXN	100	Indoor/Outdoor	Propane	Pump Mounted	Copper	685
PM1250PACC2BXN	1250	Indoor/Outdoor	Propane	Pump Mounted	Copper	730
PM1500PACC2BXN	1500	Indoor/Outdoor	Propane	Pump Mounted	Copper	830
PM1750PACC2BXN	1750	Indoor/Outdoor	Propane	Pump Mounted	Copper	880
PM2000PACC2BXN	2000	Indoor/Outdoor	Propane	Pump Mounted	Copper	1025
PM0500PACC2PXN	500	Indoor/Outdoor	Propane	Pump Mounted	CuproNickel	495
PM0750PACC2PXN	750	Indoor/Outdoor	Propane	Pump Mounted	CuproNickel	575
PM1000PACC2PXN	100	Indoor/Outdoor	Propane	Pump Mounted	CuproNickel	685
PM1250PACC2PXN	1250	Indoor/Outdoor	Propane	Pump Mounted	CuproNickel	730
PM1500PACC2PXN	1500	Indoor/Outdoor	Propane	Pump Mounted	CuproNickel	830
PM1750PACC2PXN	1750	Indoor/Outdoor	Propane	Pump Mounted	CuproNickel	880
PM2000PACC2PXN	2000	Indoor/Outdoor	Propane	Pump Mounted	CuproNickel	1025

# Commercial PowerMax<sup>®</sup> (Cont'd)

## High Performance Electronic Ignition Heaters

Product	Type	Heater Model
<b>POWERMAX STACKING SYSTEMS</b>		
CA000800	Rack	PM500
CA000900	Rack	PM750
CA0001000	Rack	PM1000
CA001100	Rack	PM1250
CA001200	Rack	PM1500, PM1750
CA001300	Rack	PM2000

### Dimensions and Performance



Note: Contact factory for replacement parts.

# UltraTemp® Heat Pumps

## High Performance Heat Pump



UltraTemp Heat Pump

The industry's first heat pump charged with non-ozone depleting refrigerant, R410A.



### Featured Highlights

- 100% pure titanium heat exchanger assures corrosion-free performance for extra long life
- LCD control board displays an intuitive menu-driven read out with easy to follow full word messages...no more codes
- AutoSet (time clock over-ride) feature monitors water temperature and turns the water circulation pump on and off as needed to maintain desired pool temperatures
- Automatic defrost feature senses refrigerant temperature and prevents ThermalFlo from freezing, allowing the heat pump to operate at even lower temperatures
- Compatible with ALL automated control packages
- Long-life corrosion resistant plastic composite cabinet stands up to severe climates and pool chemicals
- Emerson Copeland Scroll Compressor on 60 Hz, single phase models
- ETL listed for safe operation
- Thermostatic Expansion Valve (TXV) controls refrigerant flow for optimum efficiency and BTU output over a wider operating range
- Highest efficiency available, meets or exceeds existing codes and standards
- BTU and efficiency performance independently certified by the Air-Conditioning, Heating and Refrigeration Institute, AHRI

### Ordering Information

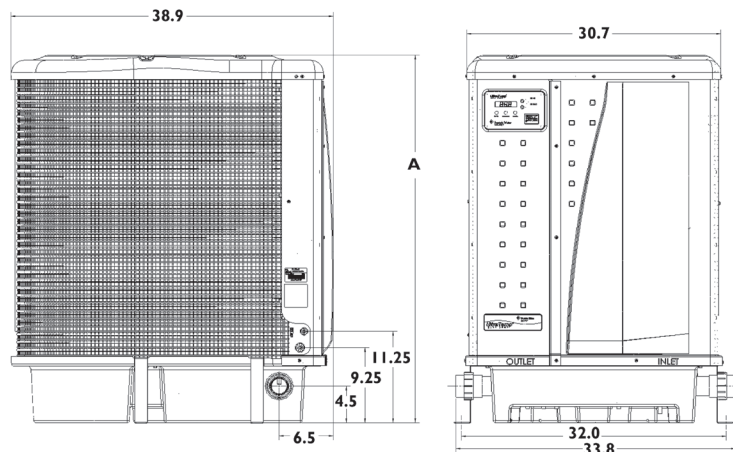
Part # Black	Part # Almond	Model	80/80/80* BTU/COP	80/63/80* BTU/COP	50/63/80* BTU/COP	Freq (Hz)	Breaker Size (amp)	Phase	Wire Size	Volt	Ctn Qty.	Ctn Wt.	"A" Dim.
<b>ULTRATEMP HEAT PUMPS</b>													
460962	460932	110	108,000/5.8	101,000/5.5	72,000/4.0	60	50	1	8	230	1	270	45.5
460963	460933	120	125,000/5.5	117,000/5.3	82,000/4.0	60	50	1	8	230	1	270	45.5
460965	460935	120 R H/C	125,000 Heat/5.4 71,000 Cool/4.1	117,000/5.2	82,000/4.0	60	50	1	8	230	1	278	45.5
	460936	90 I	85,000/5.7	81,000/5.4	56,000/4.0	50	30	3	10	380	1	250	33.5
460967	460937	120 C	125,000/6.1	115,000/5.8	81,000/4.3	60	50	3	8	230	1	280	45.5
	460398	100 I	102,000/5.9	96,000/5.6	67,000/4.0	50	50	1	8	230	1	280	41.5

\* Valves represent air temp°F. / % relative humidity / water temp°F.

### Dimensions and Performance



The AHRI Certified™ Mark is applied only to HVACR equipment and components that have been independently tested to certify manufacturers' performance claims are accurate. Visit [www.ahridirectory.org](http://www.ahridirectory.org) for a complete list of certified products.



See pages 418–419 for replacement parts.