

# 933B SERIES

## ARCHITECT'S AND ENGINEER'S SPECIFICATIONS\*

The heating equipment shall include electric, automatic fan forced air heater suitable for large area heating, as manufactured by Brasch. The heater shall be designed for wall recess or surface mounting. Heaters shall be cULus or equivalent cETLus.

**HEATER ASSEMBLY:** The heater assembly which fits into the back box shall consist of a fan panel upon which is mounted all of the operational parts of the heater.

**HEATING ELEMENT:** The heating element shall be of the non-glowing design consisting of a special resistance wire enclosed in a steel sheath to which steel plate fins are copper brazed. It shall be warranted for 5 years.

**FAN AND MOTOR:** Fan shall be five-bladed aluminum. Fan motor shall be totally enclosed.

**FAN DELAY SWITCH:** Fan control shall be of bi-metallic, snap-action type and shall activate fan after heating element reaches operating temperature. The fan shall continue to operate after the thermostat is satisfied and until the heating element is cool.

**THERMOSTAT:** The tamper-proof thermostat shall be of the bi-metallic snap-action type with enclosed contacts. It shall be completely concealed behind the front cover to become tamper proof.

**THERMAL CUTOUT:** A manual-reset thermal cutout shall be built into the system to shut off the heater in the event of overheating.

**POWER ON/OFF SWITCH:** A double-pole, single throw ON/OFF switch shall be mounted on the back box for positive disconnect of power supply. It will be completely concealed behind the front grille panel.

**PNEUMATIC/ELECTRIC SWITCH:** An optional pneumatic/electric switch shall be available for use with energy management systems employing pneumatic pressure devices for controlling comfort levels and set-back operations.

**LOW VOLTAGE RELAYS:** 24-volt and 120 volt low voltage relays shall be available as optional equipment to control 208, 240 or 277 volt heaters in conjunction with central energy control systems. The built-in thermostat can then be used as one of the thermostats in an automatic night set back operation.

**BACK BOX:** The back box shall be designed for duty as a recessed rough-in box in either masonry or frame installations, and is also used with the surface mounting frame in surface mounting installations. The back box shall be 20-gauge galvanized steel and shall contain knockouts through which power leads are brought.

**FRONT PANEL:** The front panel shall be of the bar grille type and shall be constructed of 18-gauge cold-rolled steel, welded into a uniform grille to direct the warmed air toward the floor. The front grille shall be surrounded by a decorative satin-finish aluminum "picture" frame.

**THREE PIECE DESIGN:** The heater shall be made up of a back box, a heater assembly and a front panel.

\*Brasch reserves the right to change specifications without prior notice.

### Models & Specifications:

ITEM INFORMATION	ELECTRICAL DATA					
	CATALOG NO.	VOLTS	PHASE	WATTS	AMPS	BTU/HR.
933BW-3150-S	120	1	1500	12.5	5,118	25 lbs
933BW-4307-S*	277	1	3000/1500	10.8/5.4	10,236/5,118	25 lbs
933BW-4404-S*	240	1	4000/2000	16.7/8.3	13,649/6,824	25 lbs
	208	1	3000/1500	14.4/7.2	10,236/5,118	25 lbs
933BW-4407-S*	277	1	4000/2000	14.4/7.2	13,649/6,824	25 lbs
	240	1	3000/1500	12.5/6.3	10,236/5,118	25 lbs
933BW-4408-S*	208	1	4000/2000	19.2/9.6	13,649/6,824	25 lbs
	240	1	4800	20	16,378	25 lbs
933BW-4504-S	208	1	3600	17.3	12,284	25 lbs
	277	1	4800	17.3	16,378	25 lbs
933BW-4507-S	240	1	3600	15	12,284	25 lbs
	208	1	4800	23.1	16,378	25 lbs
933BW-4508-S	208	1	4800	23.1	16,378	25 lbs
933BW-3180-S	120	1	1800	15	6,142	25 lbs
933BW-4404-S	240	3	4000	9.6	13,649	25 lbs
933BW-4408-S	208	3	4000	11.1	13,649	25 lbs
933BW-45043-S	240	3	4800	11.6	16,378	25 lbs
933BW-45083-S	208	3	4800	13.3	16,378	25 lbs
933BW-4303-S	347	1	3000	8.6	10,236	25 lbs
933BW-4303-S	347	1	4800	13.8	16,378	25 lbs
933BW-4306-S	600	1	3000	5	10,236	25 lbs
933BW-4506-S	600	1	4800	8	16,378	25 lbs

\*Factory-wired for higher wattage, field-convertible to half wattage. Units not available to be wired with remote thermostats.

Standard finish is Bronze; For White, replace W with S at the end of the catalog number

### Optional Accessories:

CATALOG NO.	DESCRIPTION	SHIP WT*
WIK-WHPE-X*	Pneumatic/Electric switch. Factory set at 10 psig to "make" on pressure drop. May be field wired to "break" on pressure drop. Pressure set point adjustable to 30 psig. (field-installed)	2 lbs
WIK-WHR2-X (24V)*	Time delay relay 40-60 seconds to close when energized. Use 120V or 24V power supply from remote source (field-installed)	2 lbs
WIK-WHR12-X (120V)*		
WIF-S1F-S	1 in. deep surface mounting frame for semi-recessed installation, Bronze	2 lbs
WIF-S2F-S	2 in. deep surface mounting frame for semi-recessed installation, Bronze	2 lbs
WIF-SMF-S	Surface mounting frame for surface installations. Painted to match heater decor, 3 1/8 in. deep, Bronze	5 lbs
WIF-SMFL-W	Surface Mounting Frame, White	5 lbs
WIF-SMFL1-W	1 in. Semi-Recessed Frame, White	2 lbs
WIF-SMFL2-W	2 in. Semi-Recessed Frame, White	2 lbs
WIC-SFC-W	14-gauge security front cover, White	6 lbs

Note: \*Will accommodate pneumatic/electric or low-voltage controls commonly used with computerized energy management systems Mounting Limitations: For wall mounting, do not install back box closer than 8 in. from floor or adjacent wall. Do not install heater behind towel rack, behind door, in floor, in closet, in ceiling or where air flow may be obstructed. All controls are concealed behind the front cover making them essentially tamper proof.

### Dimensions and Clearances:

