

ROT-2500/MNRC SERIES



Propane & Natural Gas
Dual & Triple Stage
CONSTRUCTION HEATERS



ROT-2500/MNRCD(W) ROT-2500/MNRCT(W)

ROT-2500/MNRCD(W)

PROPANE	NATURAL GAS
LOW HEAT **MINIMUM	1,100,000 BTUH
HIGH HEAT**MAXIMUM	1,900,000 BTUH

ROT-2500/MNRCT(W)

PROPANE	NATURAL GAS
LOW HEAT **MINIMUM	1,100,000 BTUH
HIGH HEAT**MAXIMUM	1,900,000 BTUH

LOW HEAT **MINIMUM
HIGH HEAT**MAXIMUM

CHECK THESE IMPORTANT FEATURES

DUAL FUEL *PROPANE OR NATURAL GAS*

The ROT-2500/MNRC series REXO-THERM construction heaters are designed to operate using HD5 quality propane gas or natural gas fuel. The fuel changeover is accomplished by easily positioning the selector valve for the fuel to be used on the job site.

DUAL AND TRIPLE STAGE MODELS

The ROT-2500/MNRC series construction heaters are available in dual stage and triple stage models, i.e. ROT-2500/MNRC and ROT-2500/MNRC. The ROT-2500/MNRC model has one thermostat which controls the firing level from 'high fire to low fire'. This heater starts up and burns on low fire continuously and will revert to high fire on thermostat demand. The 'MNRC' model is ideal for applications where the heater will draw air from outdoors, because of its 'low fire' to 'high fire' cycling. In an event the burner would stop for any reason, the control circuit would shut down the heater completely. This will eliminate the building from being filled with cold air from outside. The ROT-2500/MNRC model heater has three stage firing and has two thermostats. The 'high fire to low fire' thermostat cycles the burner from high fire to low fire while the 'low fire to fan only' thermostat cycles the burner off leaving the fan & motor assembly to circulate air. This model is ideal for applications where the heater recirculates the air within the building. This model can also be used in applications where fresh air would be drawn from outdoors provided the 'low fire to fan only' thermostat is bypassed. If this is not done, the heater could blow fresh cold air into the building and could cause problems. This 'MNRC' heater is also equipped with the necessary controls to cause the heater to shut down in any event the burner should fail. The ROT-2500/MNRC model heater is the natural choice because of its ability to handle all the applications that may be required of it. You will note in the SPECIFICATIONS below that this heater is available in single and three phase electrical requirement and in all standard voltages available in North America. This heater has a larger fan and motor assembly and therefore has motor controls to handle these voltages.

ELECTRONIC FLAME SUPERVISION

An electronic flame safeguard control is used to monitor the flame on the ROT-2500/MNRC series construction heater. In an event the gas supply is interrupted or the ignition fails, the flame safeguard control will lock out and de-energize the solenoid valves. The flame safeguard control allows 5 seconds trial for ignition period and will lock out on reset if ignition fails and de-energize the solenoid valves. The flame failure response timing allows 4 seconds to lock out on reset and de-energize the solenoid valves. This is the requirement of the design standard of the approval agencies. A flame rod sensor is used to monitor the flame. The components in the "SAFETY LIMIT TRAIN" have to prove their safety function before the flame safeguard can start. The flame safeguard control is electrically switched off until the motor reaches its full speed. This ensures the flame safeguard control and related components are not required to start under unnecessary low voltage conditions during start-up.

COMPLETE COMBUSTION

The "PRO-RING" burner is unique to the REXO-THERM heaters. This burner assures emissions of carbon monoxide and carbon dioxide within acceptable levels to meet the amounts allowed by the construction heater standards.

SAFETY CONTROLS AND LIMIT SWITCHES

The ROT-2500/MNRC series heaters are equipped with electronic flame supervision, flame rod sensor, automatic electric ignition, dual solenoid lock-off valves, differential air proving switch, temperature high limit, thermostat control with lock box, gas strainer and appliance regulator. A lock out switch is provided to eliminate the flame safeguard control from being energized before the motor reaches its full speed.

ROT-2500/MNRC SERIES CONSTRUCTION HEATER SPECIFICATIONS

SPECIFICATION	PROPANE GAS	NATURAL GAS
AIR DISPLACEMENT	6,000 CFM	6,000 CFM
MOTOR SIZE	2 HORSE POWER	2 HORSE POWER
HIGH HEAT INPUT	1,900,000 BTUH. @ 1.7" wc	1,900,000 BTUH. @ 4.2" wc
LOW HEAT INPUT	1,100,000 BTUH. @ .3" wc	800,000 BTUH. @ .4" wc
PIPE INLET SIZE	2 INCH N.P.T.	2 INCH N.P.T.
INLET SUPPLY PRESSURE	11" wc	7" wc
GAS CONSUMPTION "HIGH HEAT"	754 CFH	1900 CFH
GAS CONSUMPTION "LOW HEAT"	437 CFH	880 CFH
GAS CONSUMPTION "HIGH HEAT"	88 LB./HR	N/A
GAS CONSUMPTION "LOW HEAT"	51 LB./HR	N/A
GAS CONSUMPTION "HIGH HEAT"	17.5 GALLONS PER HOUR	N/A
GAS CONSUMPTION "LOW HEAT"	10 GALLONS PER HOUR	N/A
WEIGHT **LESS WHEELS**	570 POUNDS	570 POUNDS
WHEELS FOR PORTABILITY	OPTIONAL	OPTIONAL
WEIGHT **WITH WHEELS**	582 POUNDS	582 POUNDS
OVERALL LENGTH	60 INCHES	60 INCHES
OVERALL WIDTH	40-1/2 INCHES	40-1/2 INCHES
OVERALL HEIGHT	52-5/8 INCHES	52-5/8 INCHES
THERMOSTAT LOCK BOX	INCLUDED	INCLUDED
FAN INLET SIZE(AROUND SCREEN MOUNT)	33-1/2 INCHES	33-1/2 INCHES
CANADIAN APPROVAL STANDARD	CGA 2.14 - 1972	CGA 2.14 - 1972
AMERICAN APPROVAL STANDARD	ANSI Z83.7 - 1990	ANSI Z83.7 - 1990
ELECTRICAL POWER (RUNNING)	240 VOLTS, 1PHASE, 9 AMPS	240 VOLTS, 1 PHASE, 9 AMPS
ELECTRICAL POWER (RUNNING)	208 VOLTS, 3 PHASE, 5 AMPS	208 VOLTS, 3 PHASE, 5 AMPS
ELECTRICAL POWER (RUNNING)	460 VOLTS, 3 PHASE, 4 AMPS	460 VOLTS, 3 PHASE, 4 AMPS
ELECTRICAL POWER (RUNNING)	575 VOLTS, 3 PHASE, 3 AMPS	575 VOLTS, 3 PHASE, 3 AMPS
"LOW TEMP. CUT-OFF DEVICE"	INCLUDED	INCLUDED
CLEARANCES TO COMBUSTIBLES	FAN OUTLET*** 20 FEET FAN INLET**** 3 FEET	SIDES*** 2 FEET TOP **** 5 FEET